MFP Server Series

User's Manual

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

This equipment must be installed and operated in accordance with provided instructions and a minimum 20 cm spacing must be provided between computer mounted antenna and person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE).

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not intended for use

None.

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1. Introduction

Thank you for purchasing and using our 802.11g Wireless LAN MFP server. This MFP server allows your Multi-function, all-in-one printer (called for short: MFP) or printer to become a shared device on the network. Unlike many print servers, it can communicate with MFP and printer as if it is connected directly to your computer. Because of the features, all users can share print, scan and card reader functions through the network. Furthermore, the MFP Server can build the bi-directional communication with MFPs and Printers so that it can help to monitor important information such as ink levels and paper levels.

The MFP server supports print, scan and card reader sharing functions in the most popular operating systems: Windows 2000 SP4 above and XP SP1 above. It also supports Windows XP scanning utility and MFP vendors' scanning utilities. When you want to scan in the Windows XP, you can choose one of the utilities.

Not only be a MFP Server, this MFP Server can also be a traditional print server. It supports TCP/IP network protocol and LPR and IPP printing protocols. It can share print function in the various common network operating systems including Windows 98SE/Me/NT/2000/XP/2003, Unix, Linux and MAC OS 9.x above.

This MFP Server provides IEEE 802.11g/b wireless LAN (up to 54Mbps data transfer rate), an Ethernet network port (10/100Mbps Ethernet) and one USB 2.0/1.1 port for MFP or printer. The MFP Server can be connected to your 802.11g/b wireless network or wired network. It is very convenient and flexible to build up the MFP Server to your network environment.

The MFP server is the best solution for users to share MFP or printer conveniently and easily. It offers the most flexibility and manageability for MFP or printer on your Local Area Network at an extremely low cost and with an absolute minimum setup and maintenance required.

2. Product Package

This package contains the following components:

- One MFP Server
- One Antenna
- One Power Adapter
- One Quick Installation Guide
- One CD-ROM (Including all the software utilities, drivers and User's Manual)

3. MFP Server Installation in Windows 2000/XP

Before you start, you should have:

- One computer with Windows 2000 SP4 above and Windows XP SP1 above
- One MFP or printer with USB port and an installation CD
- One Category 5 Ethernet Cable
- One USB Cable

3.1 Hardware Installation Procedure

1. Unpack the MFP Server package and verify that all the items listed in the previous section are provided.
2. Plug the USB cable to the MFP Server with the MFP or printer that you want to share on the network.
3. Connect the MFP Server to your network by attached the network cable to the network port of the MFP server.
4. Connect the power adapter to the MFP Server. The MFP Server will perform the Power-On-Self-Test (POST) after it is powered on. When the Status LED is unlighted, the MFP Server is ready.

Note:

1. ***You must use the power adapter shipped along with the MFP Server, do NOT use any other power adapter from other sources.***

2. ***To prevent the compatibility problem between MFP Server and a few MFP or printer, it is recommended that you power on the MFP Server before the MFP or printer.***

3.2 Software Installation Procedure

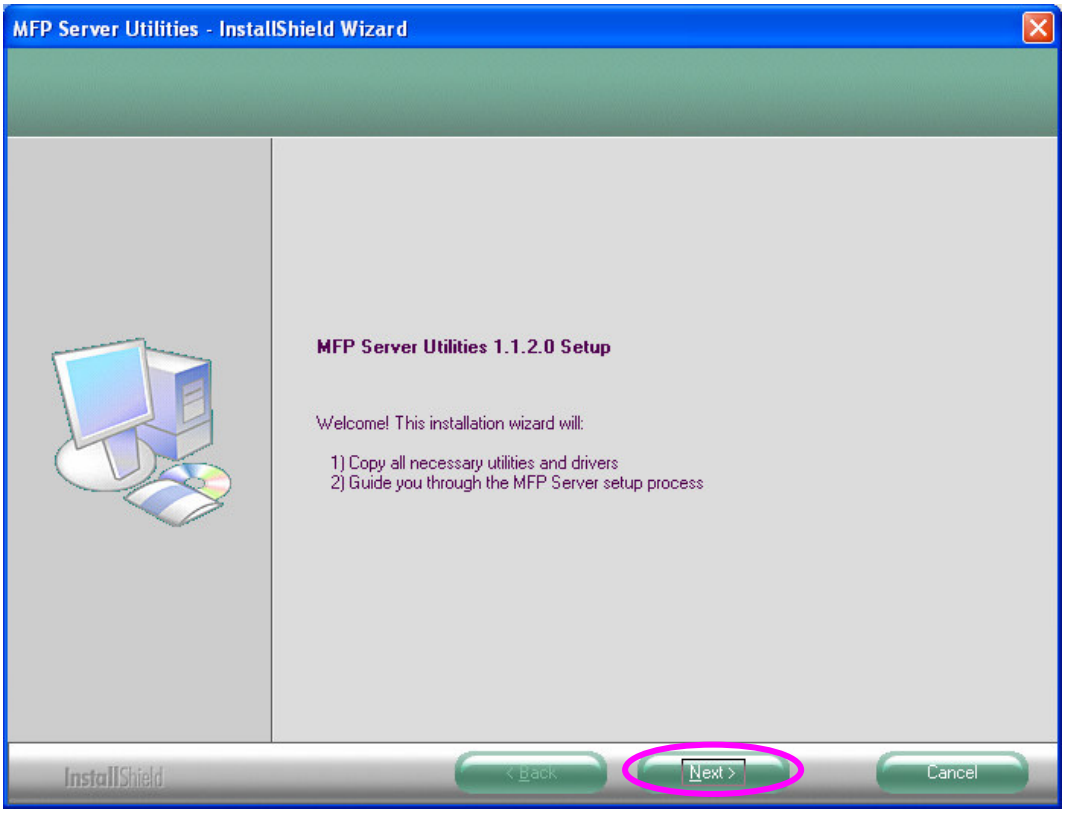
Before you start, you should check your computer's operating system. This program can be run in Windows 2000 SP4 above and Windows XP SP1 above. Please follow the steps below to start installation.

Tip: *You have to uninstall all the MFP server drivers and utilities if you have installed the previous version.*

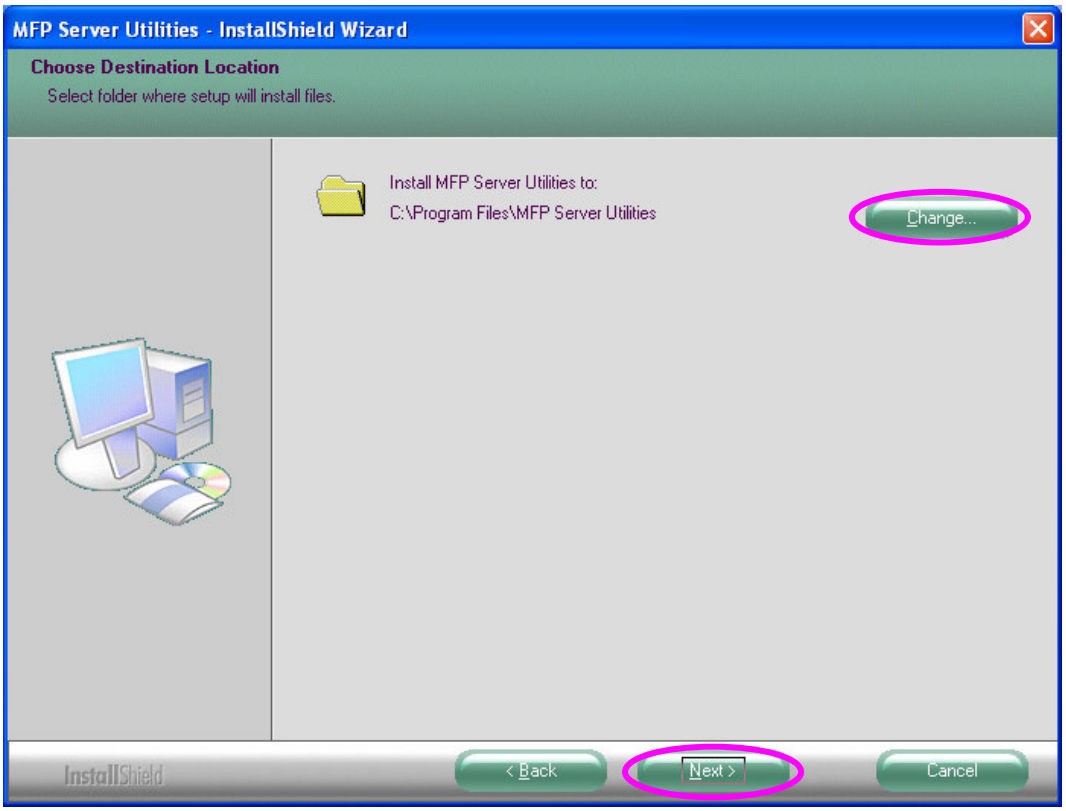
1. Insert the CD shipped along with the MFP Server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory

2. The following screen will be displayed. Click "MFP Utility" then "English Version".

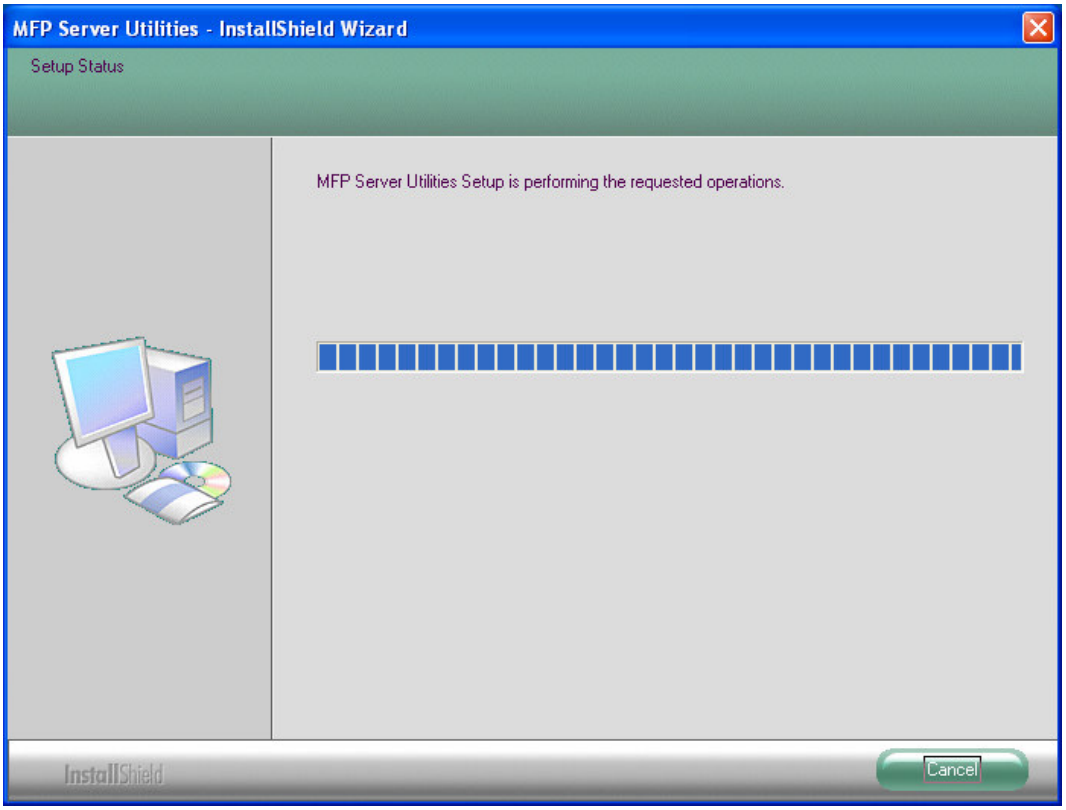
3. The “MFP Server Utilities - InstallShiled Wizard” is displayed, click "Next".


MFP Server Utilities - InstallShield Wizard
MFP Server Utilities 1.1.2.0 Setup
Welcome! This installation wizard will:
1) Copy all necessary utilities and drivers
2) Guide you through the MFP Server setup process
InstallShield
< Back
Next >
Cancel

4. Click “Next” to install the MFP Server utilities in the default folder or click “Change” to specify the destination folder where you would like to install the MFP Server utilities.

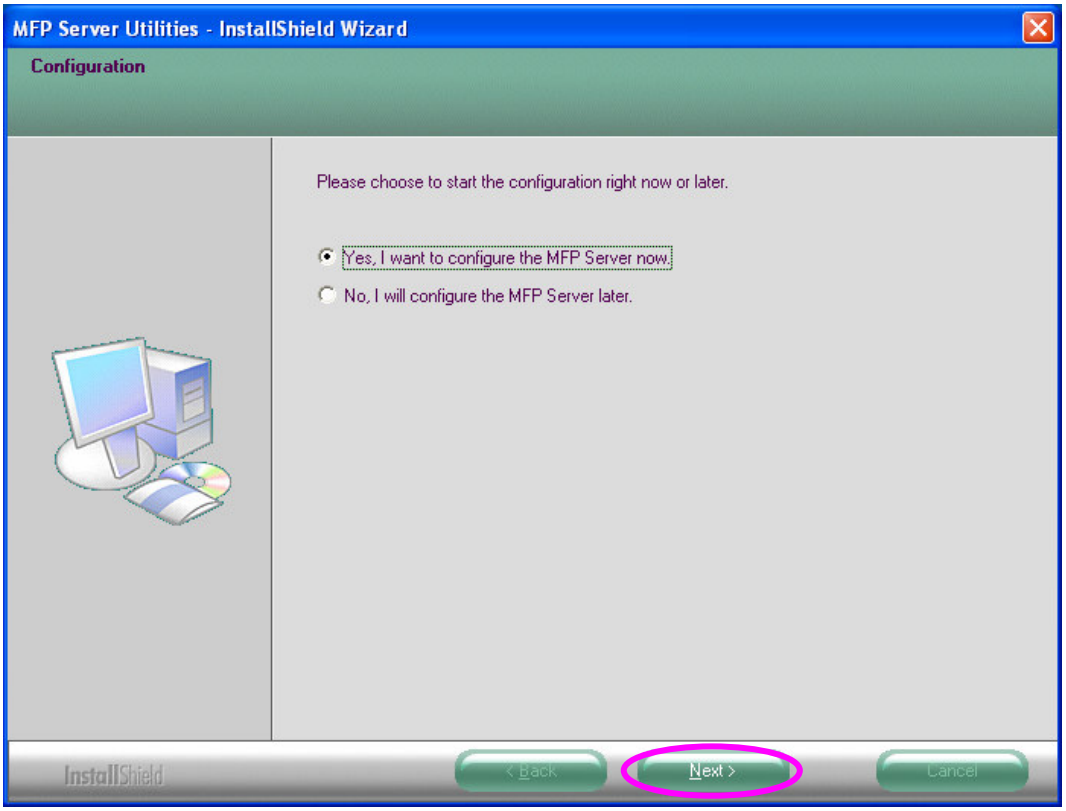


5. The system starts installing the MFP Server Utilities.

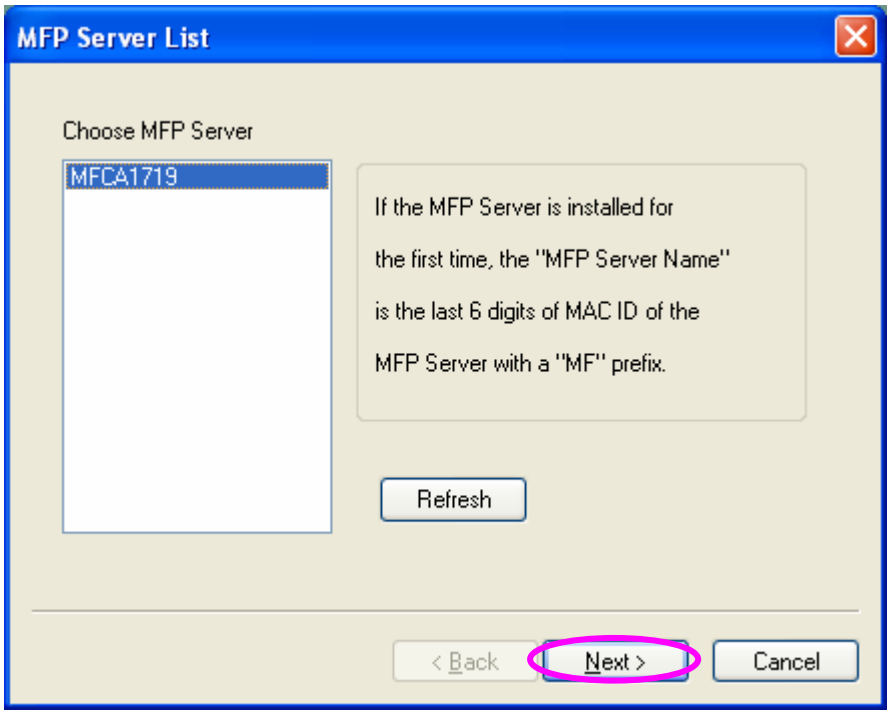


6. The “MFP Server Configuration” screen is displayed. If you want to configure the MFP Server, please click “”Next” directly. Or you can select “No, I will configure the MFP Server later” and click “Next” to complete the installation.

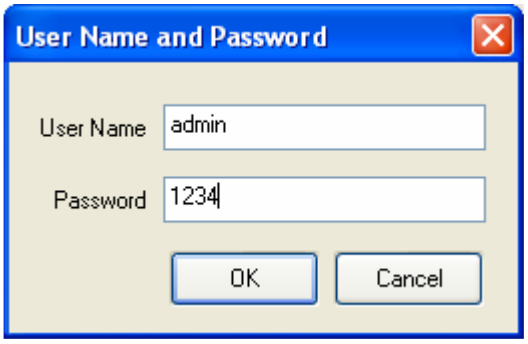
   The following steps are for MFP Server Configuration.


MFP Server Utilities - InstallShield Wizard
Configuration
Please choose to start the configuration right now or later.
Yes, I want to configure the MFP Server now.
No, I will configure the MFP Server later.
InstallShield
< Back
Next >
Cancel

7. The MFP Server List will auto search the MFP Servers in the network. Select the MFP Server you wan to setup and click “Next” to continue.

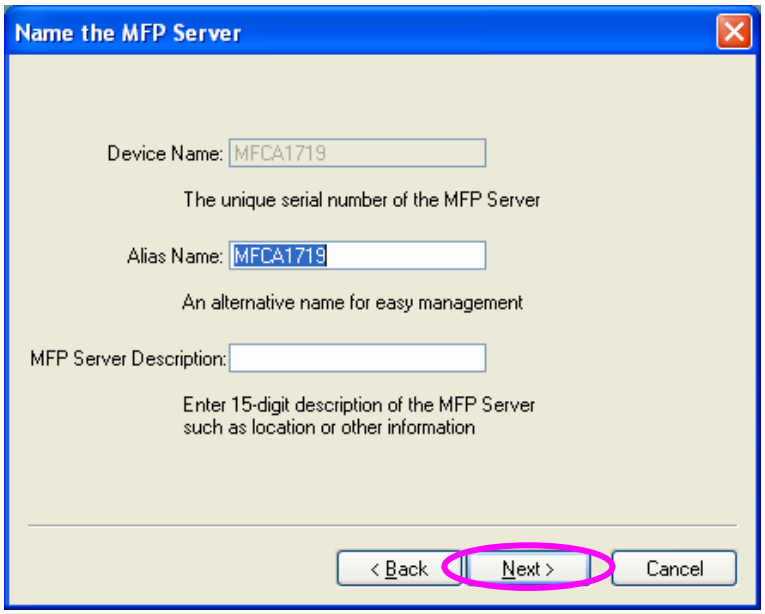

MFP Server List
Choose MFP Server
MFCA1719
If the MFP Server is installed for
the first time, the "MFP Server Name"
is the last 6 digits of MAC ID of the
MFP Server with a "MF" prefix.
Refresh
< Back
Next >
Cancel

8. Enter the “User Name” and “Password” of the MFP Server you have selected to login the MFP Server. The default “User Name” is “admin”; default “Password” is “1234.”



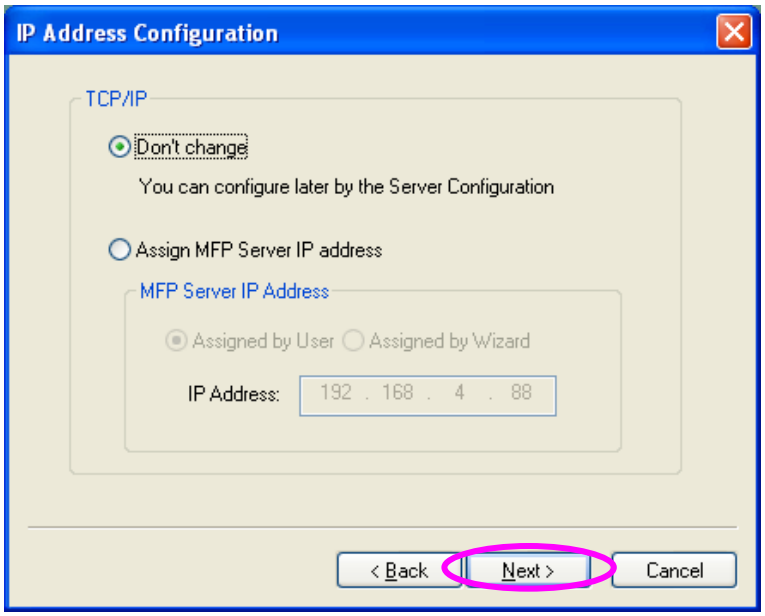
9. Set the “Alias Name” and the “MFP Server Description” to the MFP Server here. Click on “Next”.

   Note: *You can define the location or other information of the MFP Server for easy to find the MFP by filling “MFP Server Description”.*

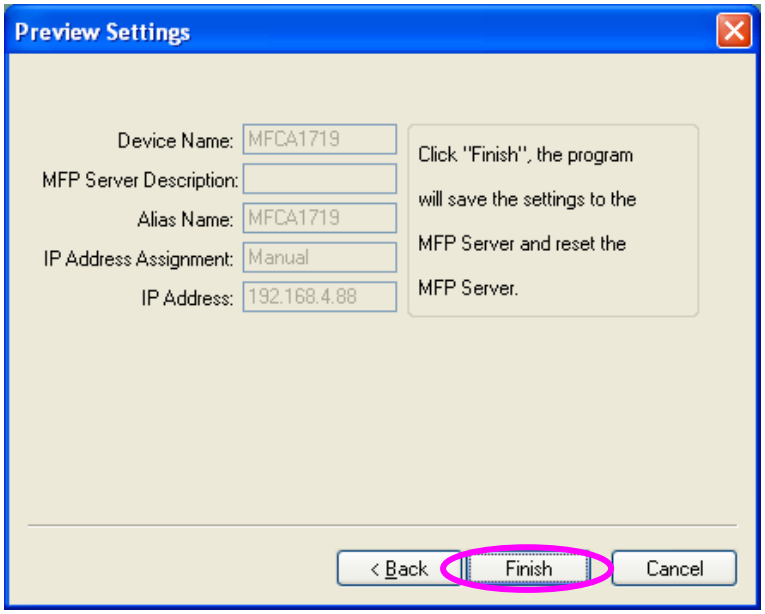


10. Setup the IP address of the MFP Server and click “Next”.

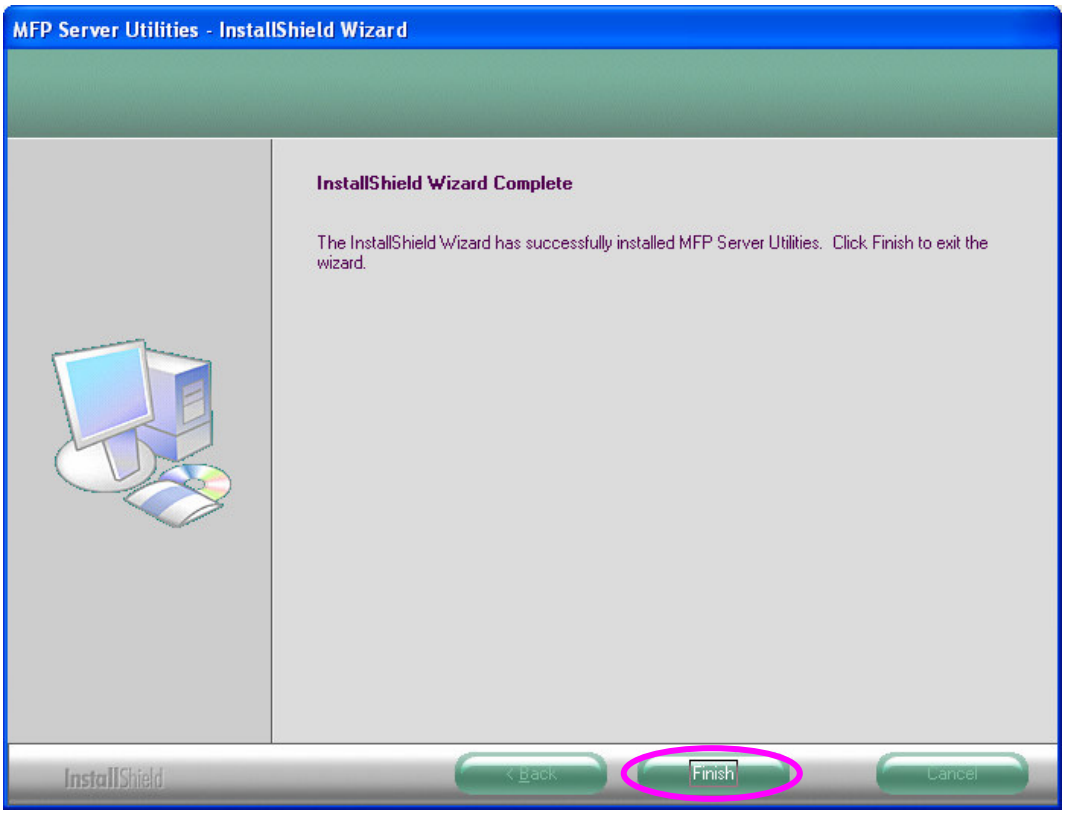
Note: *The MFP Server IP Address should be in the same network segment with the connected computer. If you are not sure how to set up the IP Address, you are recommended to select “Assign MFP Server IP Address“ and choose “Assigned by Wizard”, and then the program will assign a valid IP Address to you.*



11. The configurations are finished. Please click “Finish” to apply new settings.



12. Click “Finish” to complete the installation.


MFP Server Utilities - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed MFP Server Utilities. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

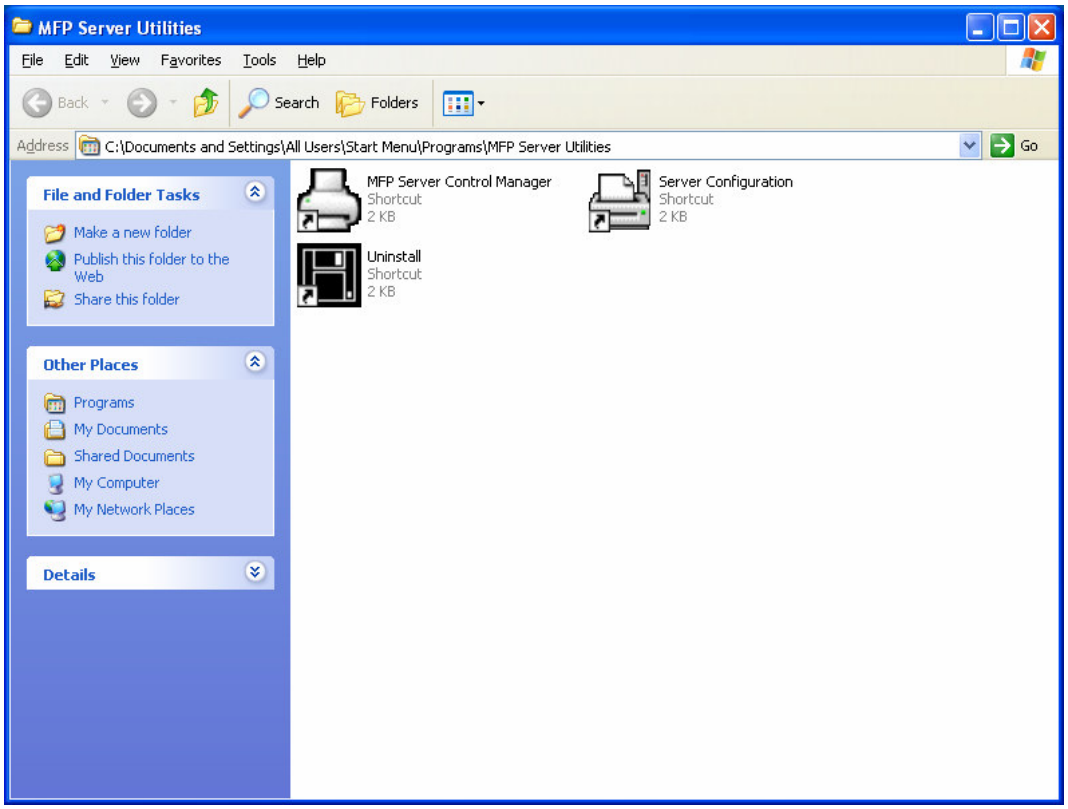
3.3 MFP Server Utilities

After the installation is completed, there will be three utilities in MFP Server's Program folder.

MFP Server Control Manager – Allows you to manage the connection between the MFP and your computer for sharing MFP function.

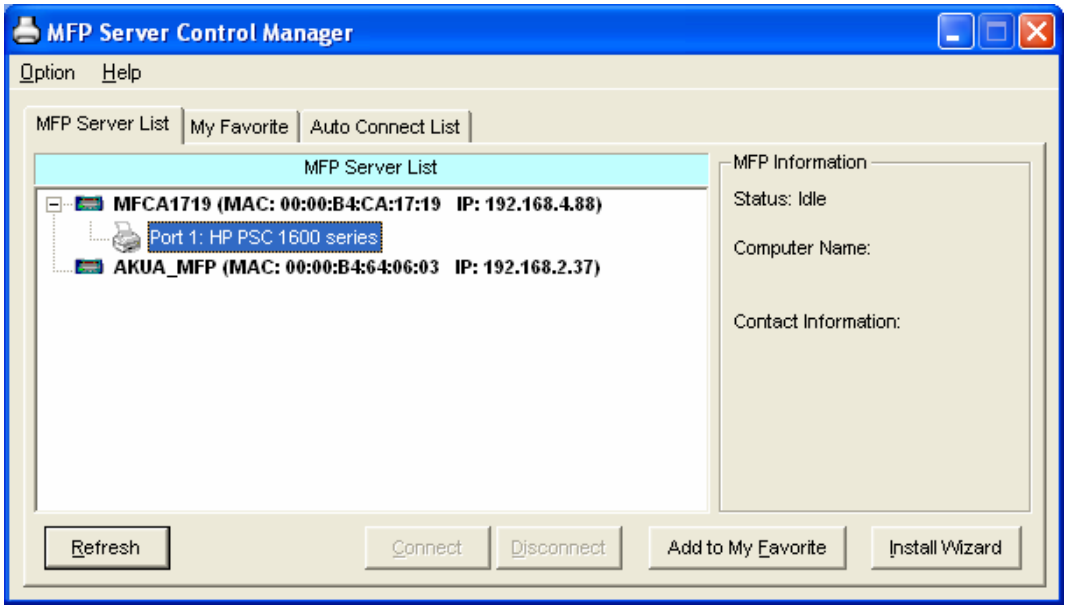
Server Configuration – Allows you to configure the MFP Server's IP Address, network protocols and other advanced features. It also allows you to manage the MFP Server.

Uninstall – Assistant for removing all installed MFP Server software programs.

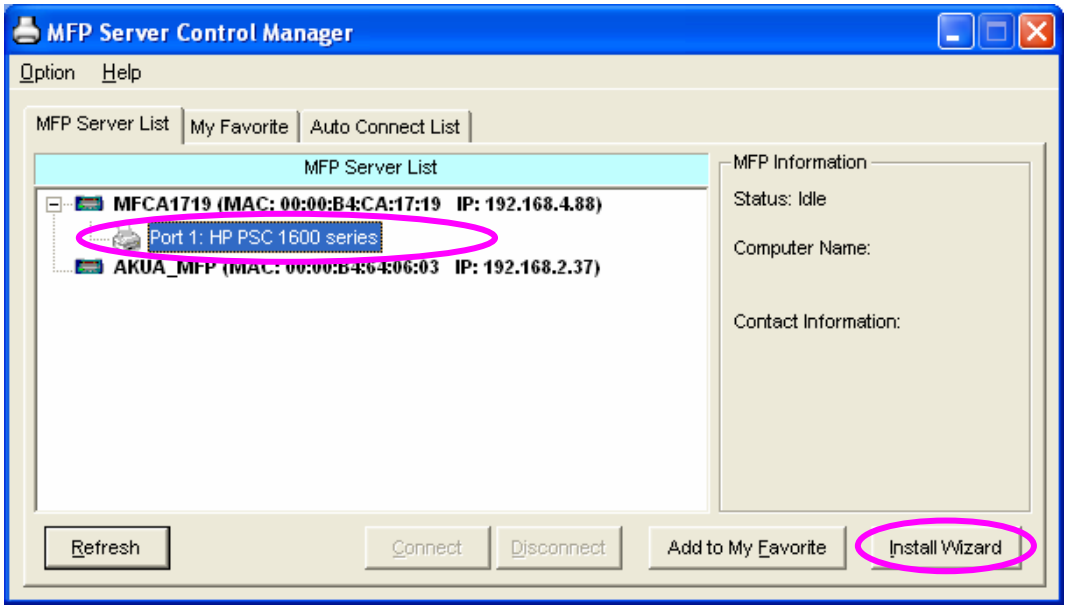


3.4 Install the MFP Drivers/Utilities

When the installation is completed, the “MFP Server Control Manager” will be popped up. It will automatically find the MFP Servers and the connected MFPs in the network and show it in the “MFP Server List”. To start installing the MFP Drivers/Utilities, please follow the steps below.

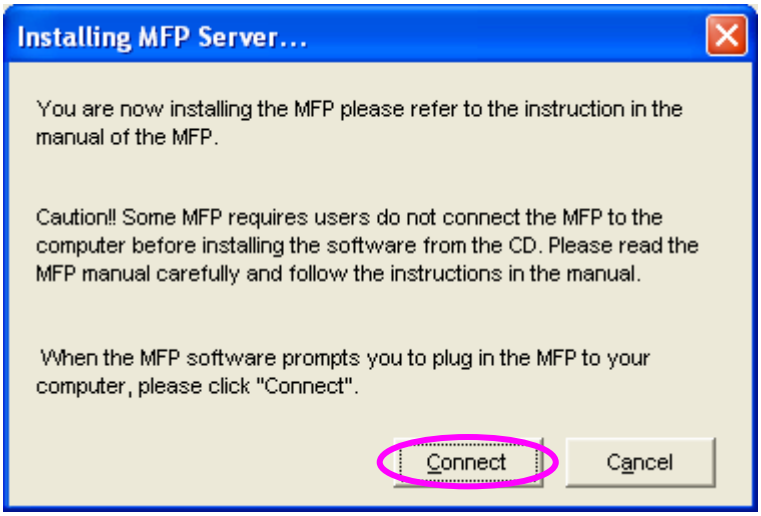


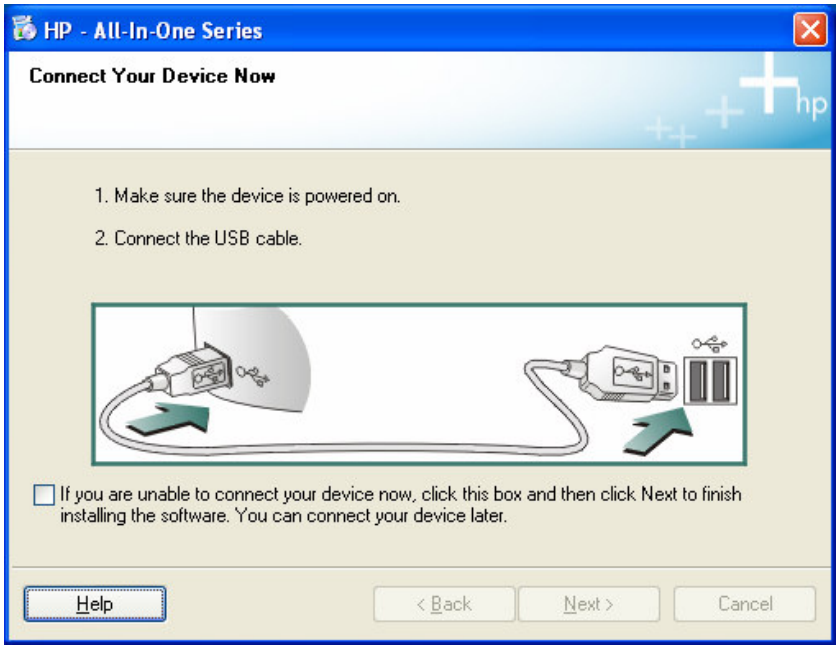
1. Select the MFP which you want to install in the “MFP Sever List” and click “Install Wizard”.



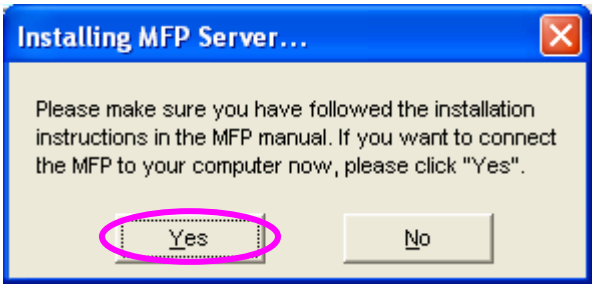
2. The following message is displayed to warn you that you have to follow the installation instructions in the manual of the MFP. If the MFP is requiring you to connect the MFP to your computer directly, please click “Connect”.

Tip: *Some MFP requires users to install the drivers/utilities before connecting the MFP to your computer, please make sure you have followed the instructions of MFP. When the MFP requires checking if you have connected the USB cable to MFP and your computer, please click “Connect” to create the connection. Please refer to the below illustration of “HP ALL-In-One Series” as an example.*

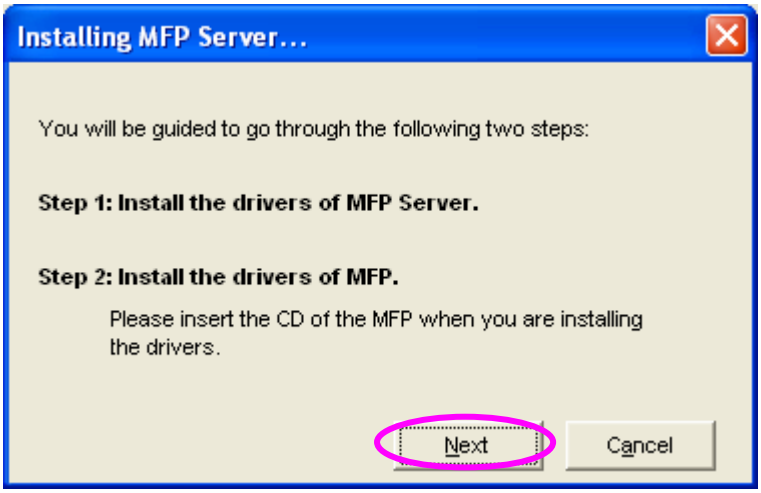

Installing MFP Server...
You are now installing the MFP please refer to the instruction in the manual of the MFP.
Caution!! Some MFP requires users do not connect the MFP to the computer before installing the software from the CD. Please read the MFP manual carefully and follow the instructions in the manual.
When the MFP software prompts you to plug in the MFP to your computer, please click "Connect".
Connect
Cancel


HP - All-In-One Series
Connect Your Device Now
1. Make sure the device is powered on.
2. Connect the USB cable.
If you are unable to connect your device now, click this box and then click Next to finish installing the software. You can connect your device later.
Help
< Back
Next >
Cancel

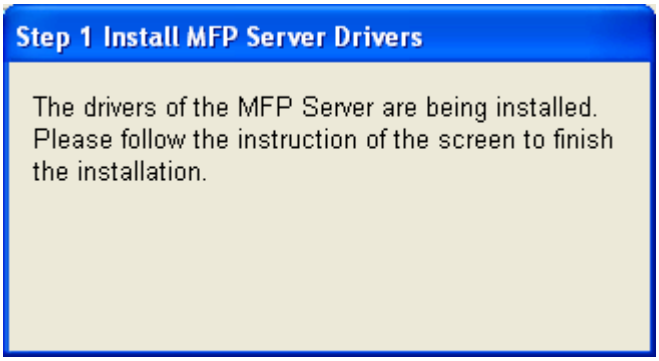
3. If the MFP has required you to plug the USB cable between the MFP and your computer, please click “Yes”.


Installing MFP Server...
Please make sure you have followed the installation instructions in the MFP manual. If you want to connect the MFP to your computer now, please click "Yes".
Yes
No

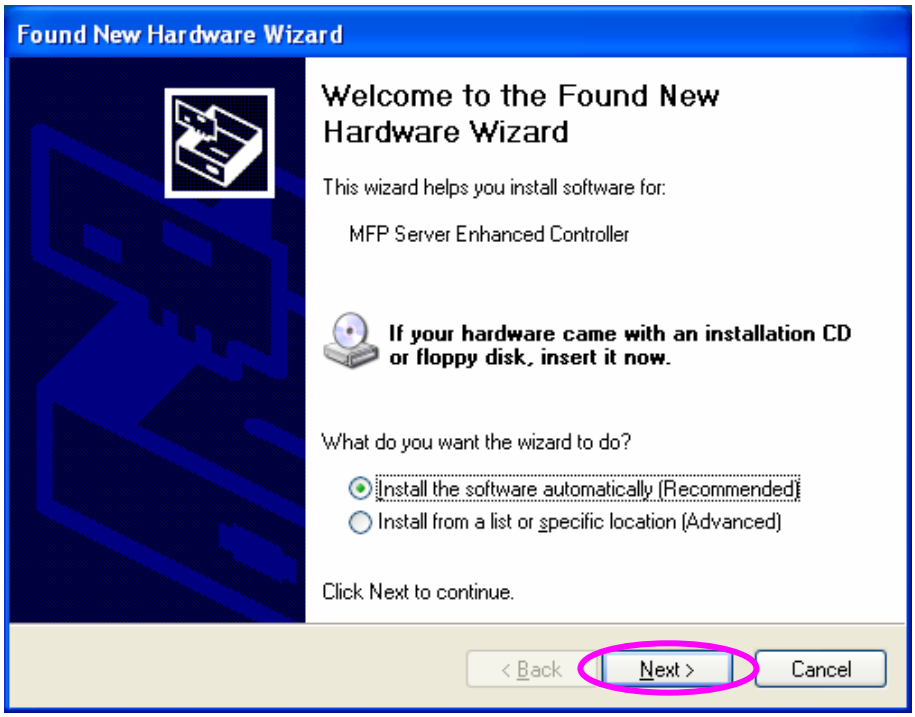
4. Before creating the connection, you have to install two kinds of drivers: the drivers for MFP Server and the drivers for MFP. Please click “Next” to start the installation.


Installing MFP Server...
You will be guided to go through the following two steps:
Step 1: Install the drivers of MFP Server.
Step 2: Install the drivers of MFP.
Please insert the CD of the MFP when you are installing the drivers.
Next
Cancel

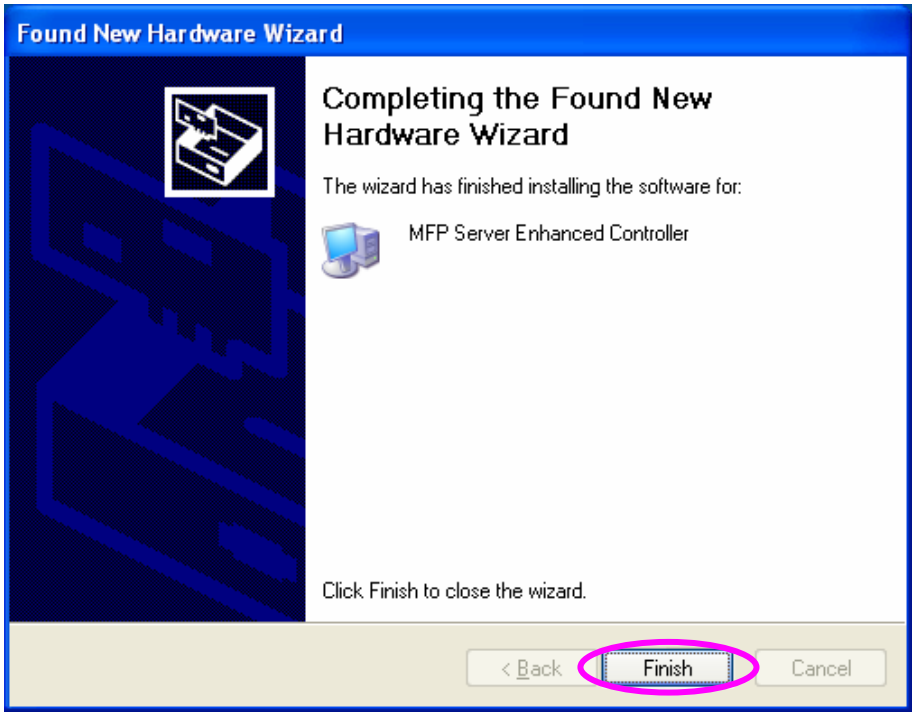
5. When you are installing the MFP Server Drivers, the following message will be displayed to notify you. When the MFP Server drivers are all installed, the message will be disappeared automatically.


Step 1 Install MFP Server Drivers
The drivers of the MFP Server are being installed. Please follow the instruction of the screen to finish the installation.

6. Select “Install the software automatically (Recommended)” to auto install the “MFP Server Enhanced Controller” driver, then click “Next”.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
MFP Server Enhanced Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

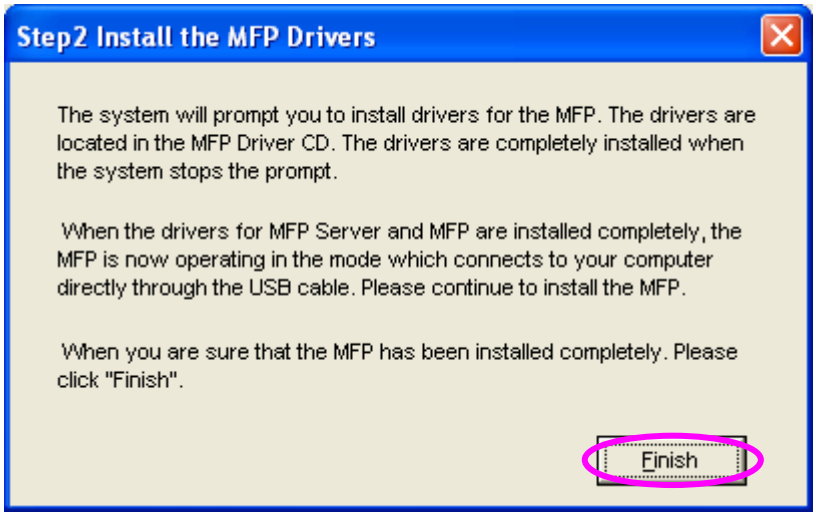
7. The driver is installed automatically. Click “Finish” to complete this driver installation.


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
MFP Server Enhanced Controller
Click Finish to close the wizard.
< Back
Finish
Cancel

8. The following message is displayed to remind you that you are now installing the MFP Drivers. When you are sure that the MFP has been installed completely, please click “Finish”.

Tip 1: *The Windows system will auto detect the MFP drivers need to be installed. Please follow the pop-up screens to install the drivers, when the system stops prompting the drivers are all installed.*

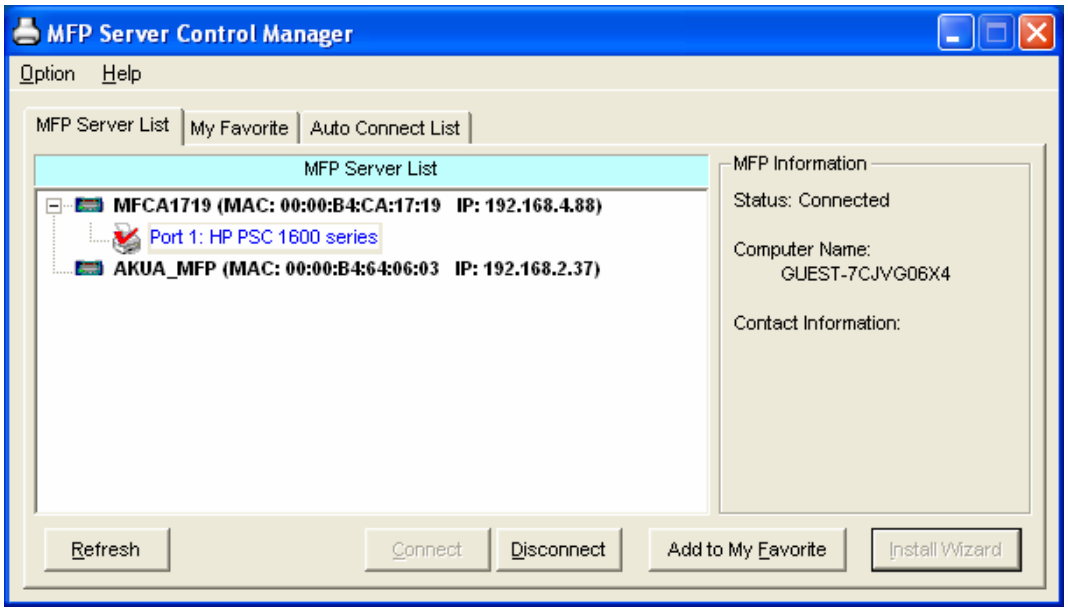
Tip 2: *When the two steps have finished, the MFP is now connected to your computer directly. Please continue to install the MFP by following the steps in the manual of MFP.*


Step2 Install the MFP Drivers
The system will prompt you to install drivers for the MFP. The drivers are located in the MFP Driver CD. The drivers are completely installed when the system stops the prompt.
When the drivers for MFP Server and MFP are installed completely, the MFP is now operating in the mode which connects to your computer directly through the USB cable. Please continue to install the MFP.
When you are sure that the MFP has been installed completely. Please click "Finish".
Finish

4. Using the MFP

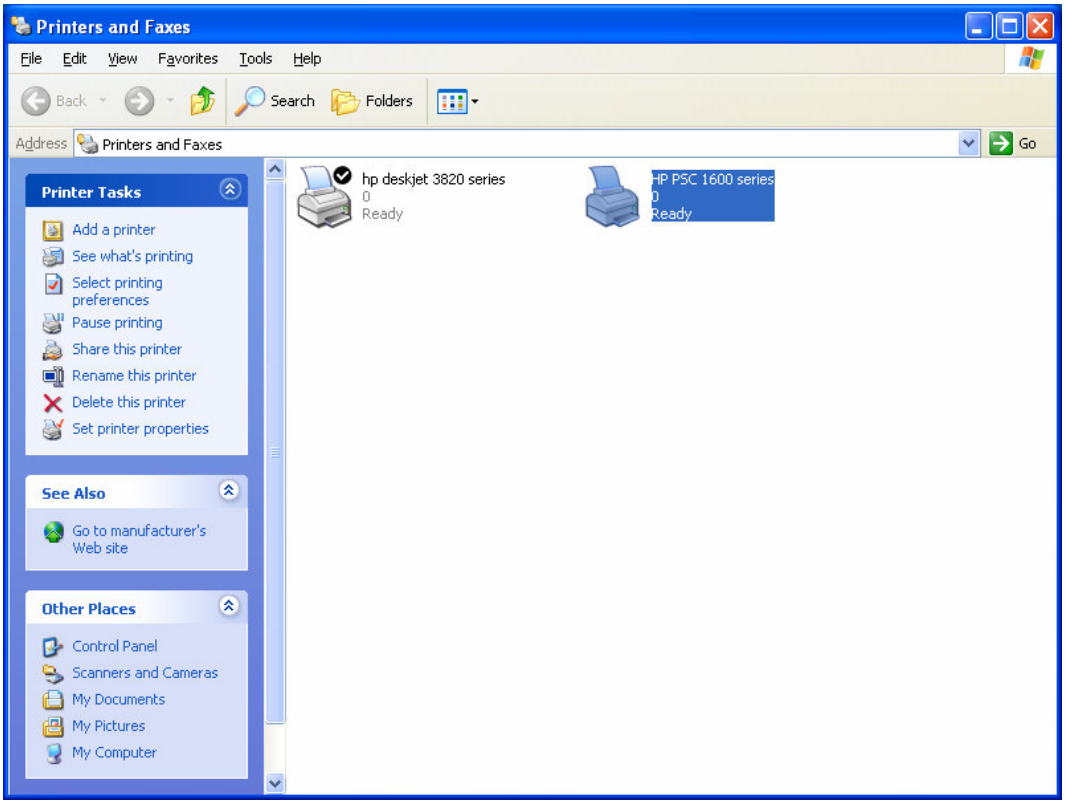
After you have followed the install wizard to finish the MFP installation, the MFP is now connected to your computer. You can start sharing print, scan or card reader functions provided by the MFP.

Tip: *If you have finished using the MFP, please click "Disconnect" to release the MFP. Another users can't use the MFP until the MFP is released.*



4.1 Share Print

The MFP will be added to “Printers and Faxes” in the Windows after the MFP is installed. When you have connected to the MFP by clicking “Connect” in the “MFP Server Control Manager”, the MFP Server will auto create the connection between the MFP and your computer and then you can print a document just follows the same steps as usual.

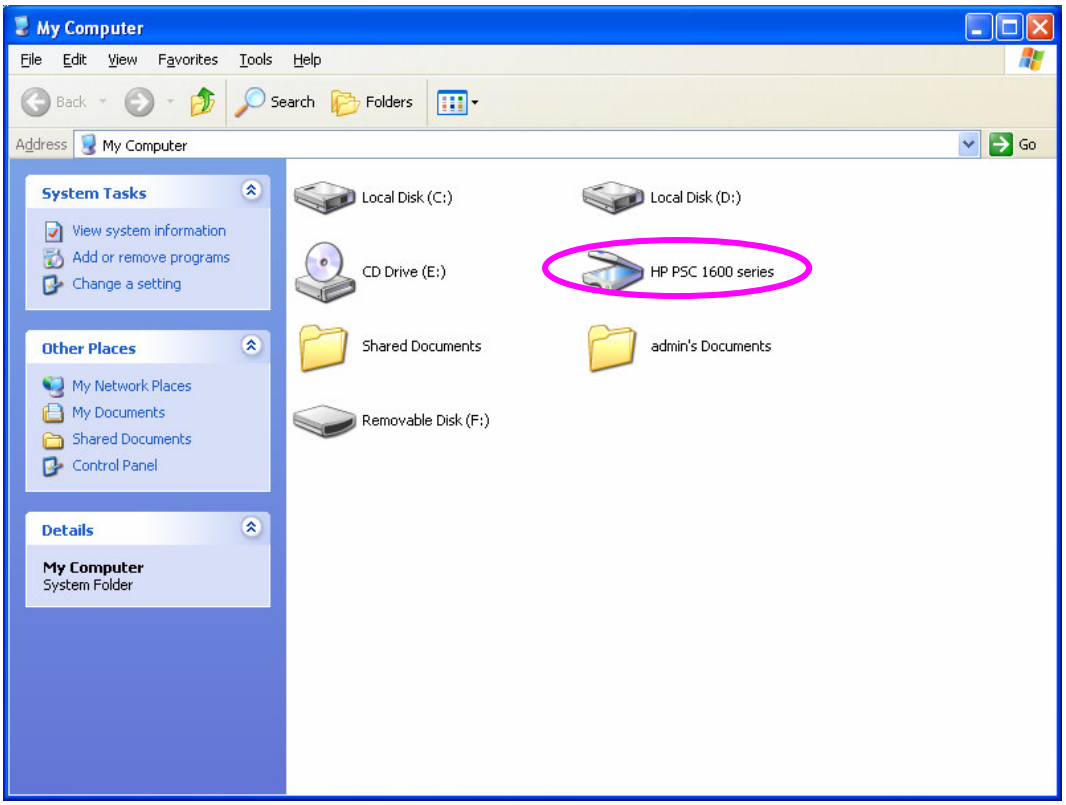


4.2 Share Scan

Most of the MFP provides scan utility for users. You can scan pictures or documents through the utility. In Windows XP, user can also scan from Windows XP scanning utility.

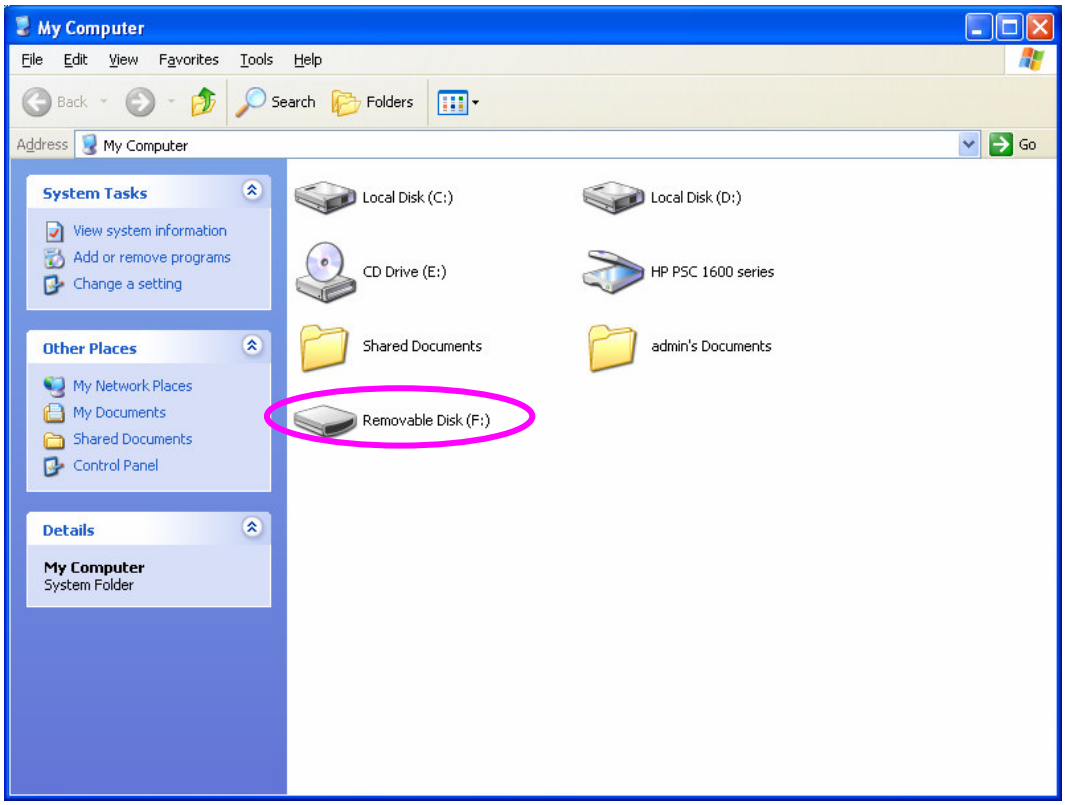
An example: HP 1600 Series Utilities

Windows XP Scanning Utility



4.3 Share Card Reader

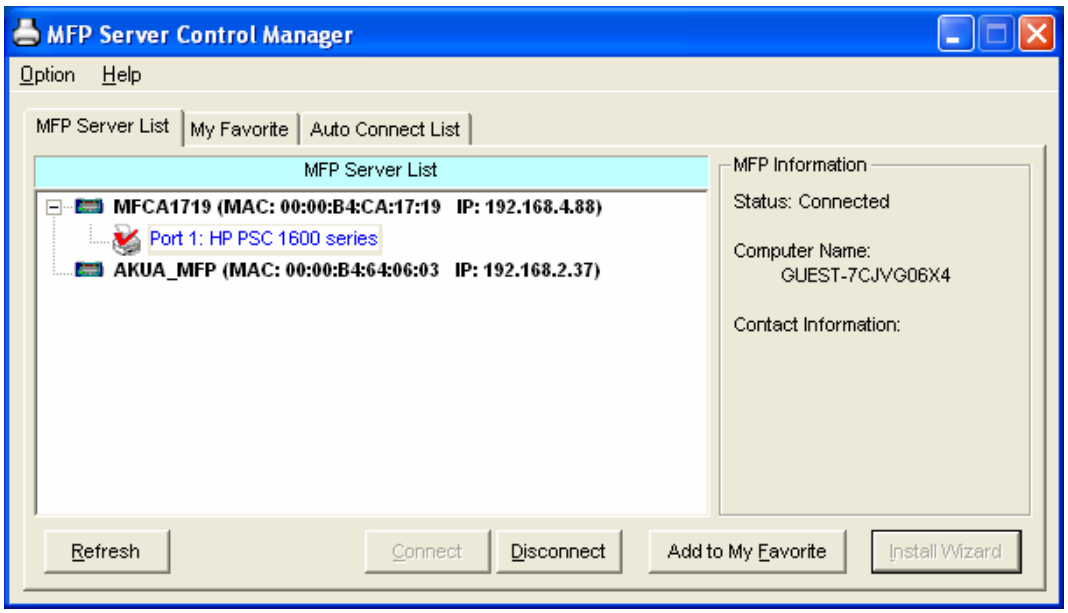
If the MFP supports card reader function, you can read the files from the plugged card reader through the MFP Server.



5. MFP Server Control Manager

5.1 MFP Server List

The “MFP Server Control Manager” can automatically find the MFP server in the network and show it in the MFP Server List. Users can select a MFP and click “Connect” to connect the MFP just like you have directly connected the MFP to your computer through USB cable. It also displays the information of the connection status.



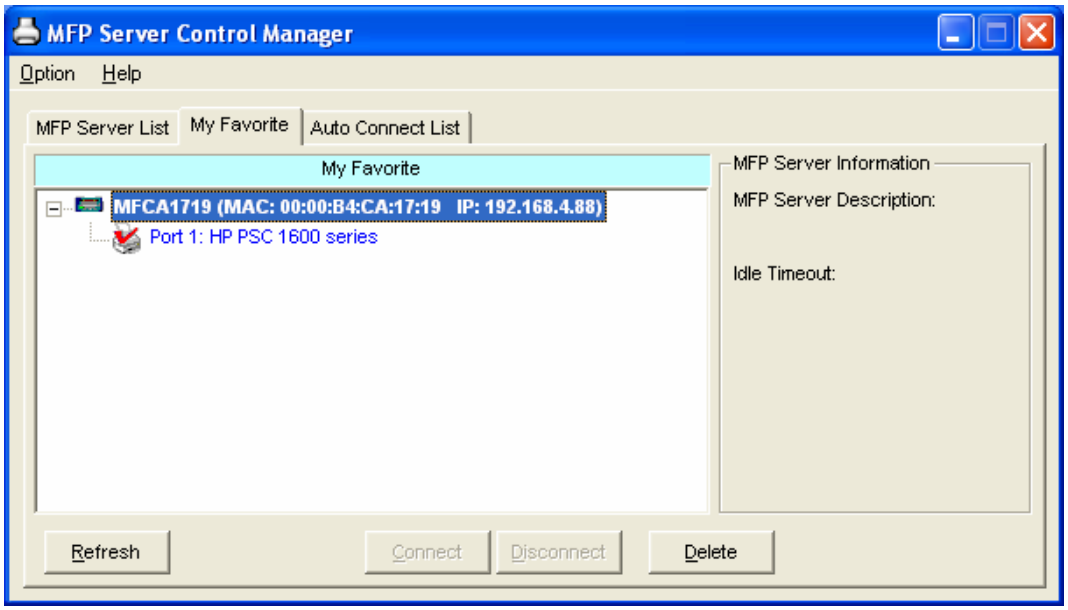
MFP Server List	
MFP Server List	The “MFP Server List” will list all the MFP Servers within the network. You can find the information of the MFP Servers including “MFP Server Name”, “MAC ID”, “IP Address” and the device that is connected to the MFP Server.

MFP Server List	
MFP Server/MFP Information	When you are clicking on the “MFP Server” in the “MFP Server List”, you will see the “MFP Server Description” and the “Idle Timeout” setting for the MFP Server. **MFP Server Description** – It is a description that can help users to identify where or what the MFP Server is. **Idle Timeout** –To avoid users occupy the MFP overtime; administrator can setup idle timeout. It is used to disconnect the current connection after the MFP is idle for a specified period of time. By default, it is never timeout. When you are clicking on the “MFP” in the “MFP Server List”, you will see the information including “Status”, “Computer Name” and “Contact Information”. **Status** – It displays the status of the MFP including Connected, Idle and Busy. When the status is “Connected”, it indicates that you are connecting the MFP. When the status is “Idle”, it indicates that the MFP is not being used. When the status is “Busy”, it indicates that other user is using the MFP to scan, print, or etc. **Computer Name** – It display the computer name of the user who is connecting to the MFP. **Contact Information** – When the current user has set his “Contact Information”, you can see it here. You can contact with the current user for asking to disconnect the MFP.

MFP Server List	
Refresh	Refresh the “MFP Server List” immediately.
Connect	Let the MFP be connected to your computer.
Disconnect	Disconnect the selected MFP.
Add to My Favorite	Add the MFP Servers that you frequently use to “My Favorite List”.
Install Wizard	When you install the MFP at the first time, click “Install Wizard” will help you to go through all the installation steps and complete the installation.

5.2 My Favorite

You can add the frequently use MFP Servers to “My Favorite” list. The MFP Server in the list will be added to the quick link list when you right click the MFP Server icon in the system tray. Please refer to Section 5.4 to know more about the quick setup functions.



My Favorite List	
My Favorite List	The “My Favorite List” will list your favorite MFP Servers. You can find the information of the MFP Servers including “MFP Server Name”, “MAC ID”, “IP Address” and the device that is connected to the MFP Server.
MFP Server/MFP Information	The information listed here are the same as MFP Server List. Please refer to Section 5.1.
Refresh	Refresh the “MFP Server List” immediately.
Connect	Let the MFP be connected to your computer.

My Favorite List	
Disconnect	Disconnect the selected MFP.
Delete	Delete the selected MFP Server from the “My Favorite List”.

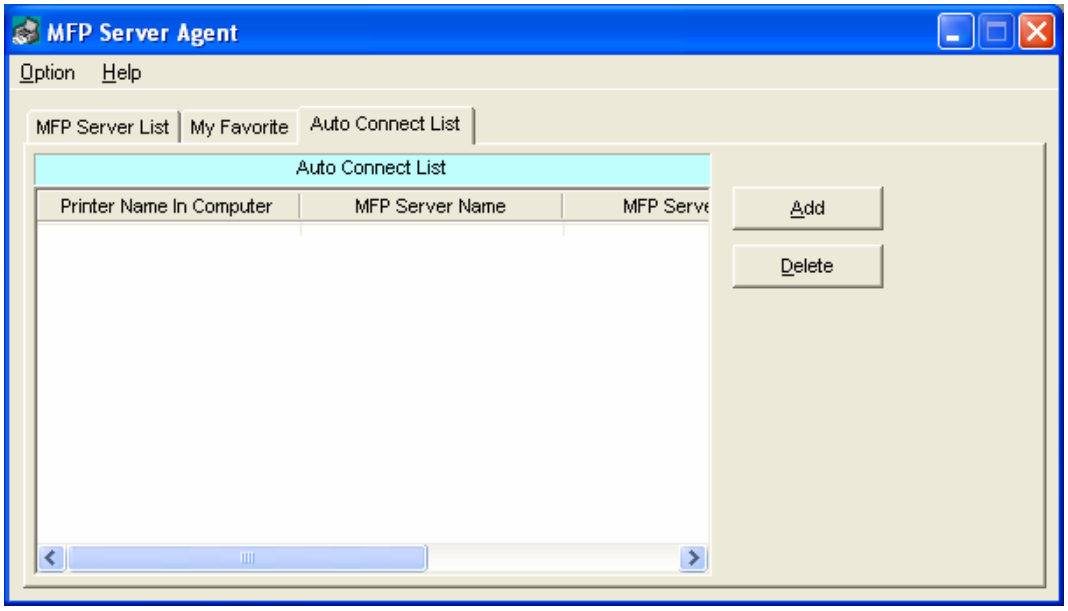
5.3 Auto Connect List

To let the system occupy the MFP server automatically when you want to print a document just like the behavior of using traditional print server, you can add the MFP into your Auto Connect List. The system will send the printing jobs to the MFP when the MFP Server is idle and not being connected.

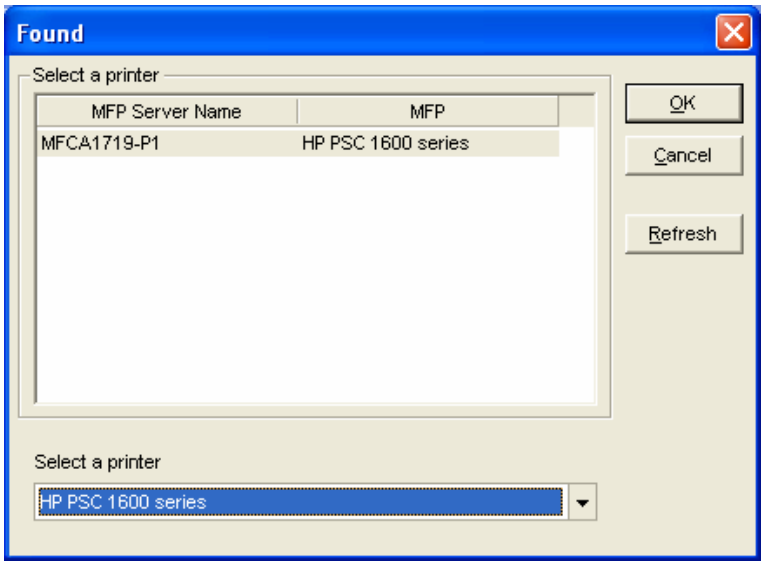
Tip: *If you have sent a printing job to the MFP while the MFP is busy or connected, you may be prompt that the device is not found or not connected. The MFP may queue your printing job in your computer spooler. The MFP Server will then print the job after the MFP is idle or disconnected.*

To add the MFP to the Auto Connect List, please follow the steps below.

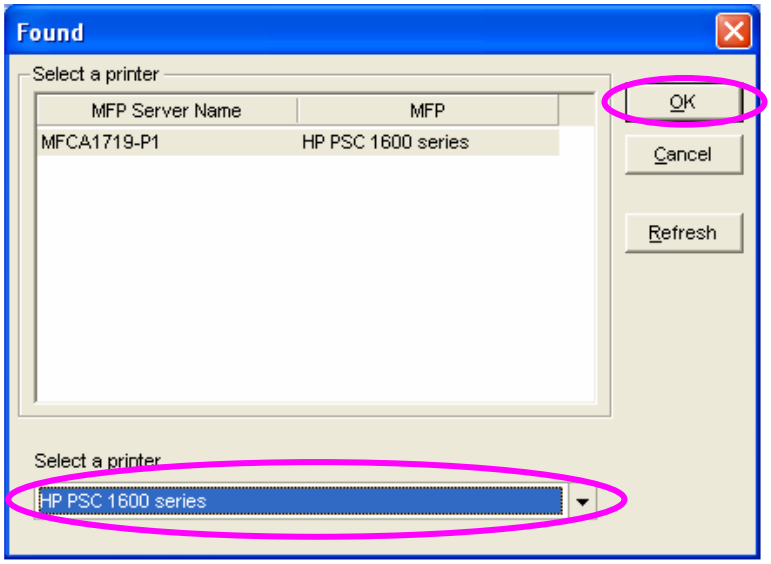
1. Click “Add” from the “Auto Connect List”.



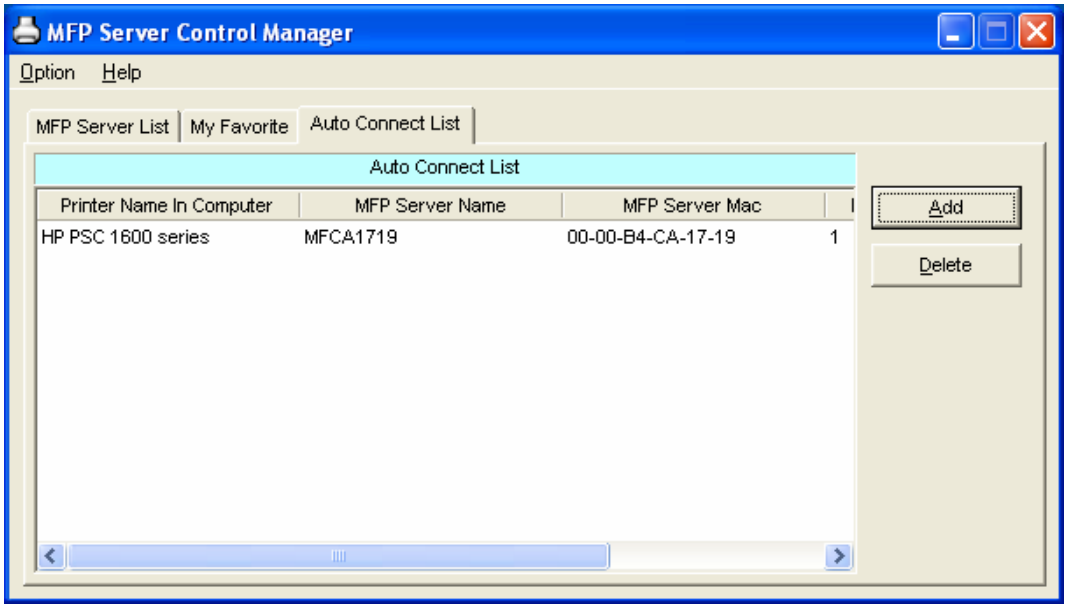
2. The MFP Servers within the network will be displayed in the following screen. Select the MFP Server you would like to add to the list.



3. Select the MFP that is connected to the selected MFP Server. Click “Ok”.

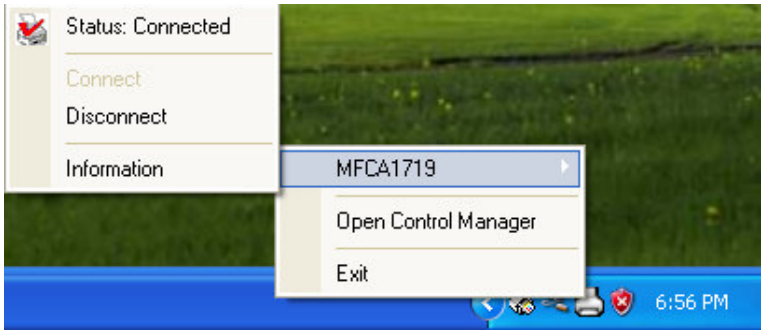


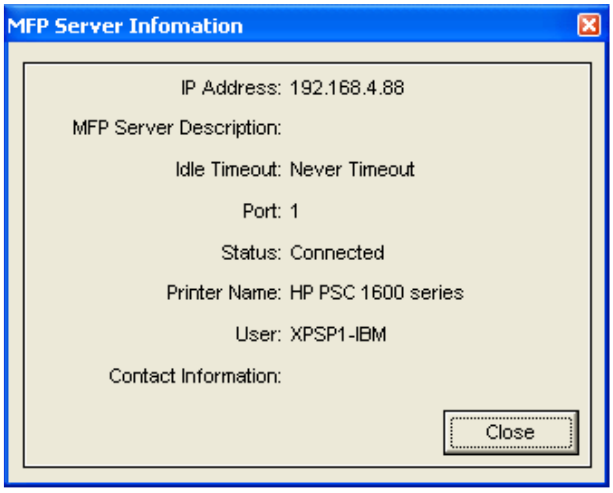
4. The setup is finished.



5.4 Quick Setup

Right click on the MFP Server icon in the system tray you can see the MFP servers you have designated to “My Favorite List”. You can directly connect or disconnect the MFP and check the MFP information from the here easily.



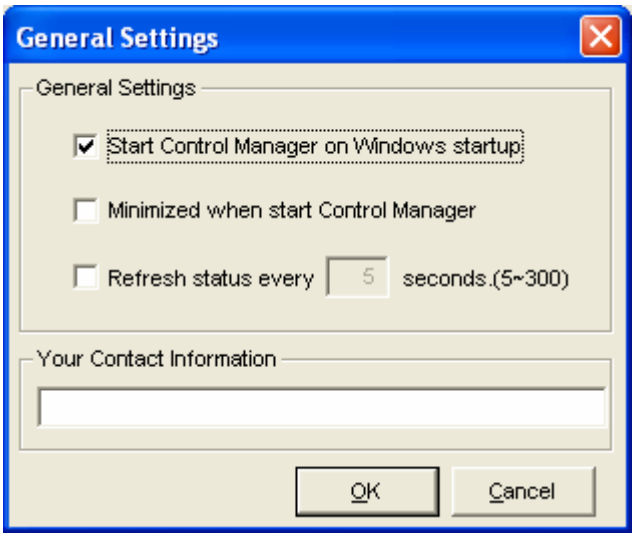


Quick Setup	
Status	The current status of the MFP will be displayed here. “Connected” indicates that you are connecting to the MFP. “Busy” indicates the MFP is being used. “Idle” indicates that the MFP is free to use by any users.
Connect	If the MFP is free to use, the “Connect” will be available to click for occupying the MFP. Or it will be grayed.

Quick Setup	
Disconnect	Disconnect the selected MFP. The “Disconnect” will be available only for the current user.
Information	To check more information about the MFP Server and the MFP, please click this button. The information will be listed as the illustration above.

5.5 Option Settings

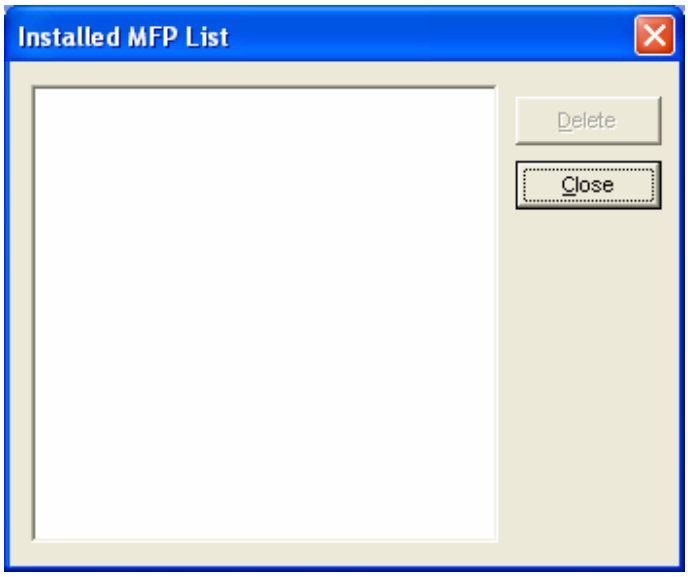
5.5.1 General Setting



General Setting	
Start Control Manager on Windows startup	Execute the “MFP Server Control Manager” when Windows starts every time. By default, it is enabled.
Minimized when start Control Manager	Minimized the “MFP Server Control Manager” to an icon in the system tray when you start the “MFP Server Control Manager”. By default, it is disabled.
Refresh status every xx seconds. (5~300)	Setup the refresh interval for device status update. By default, it is disabled.
Your Contract Information	Enter your contact information here. When you connect to the MFP, your contact information will be displayed in the right side of the program for other users to contact you.

5.5.2 Installed MFP List

The MFPs that have been installed will be displayed in the list. If you have removed the MFP from your computer, please delete the MFP from the list. The “MFP Server Control Manger” will guide you to install the MFP when you want to install the same MFP next time.

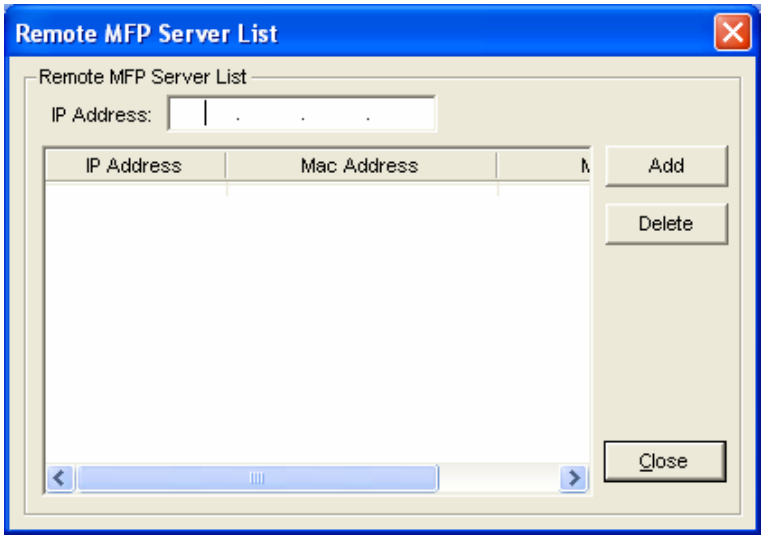


5.5.3 Search for MFP Server

If there is an MFP Server is not in the network as your computer, you can enter the IP Address of the MFP Server to do the remote search. The MFP Server in the “Remote MFP Server List” will be added to the “MFP Server List” for you to configure.

Note:

If the remote MFP Server you have searched is behind NAT Router, the MFP Server may not operate normally.



6. Server Configuration

6.1 Introduction

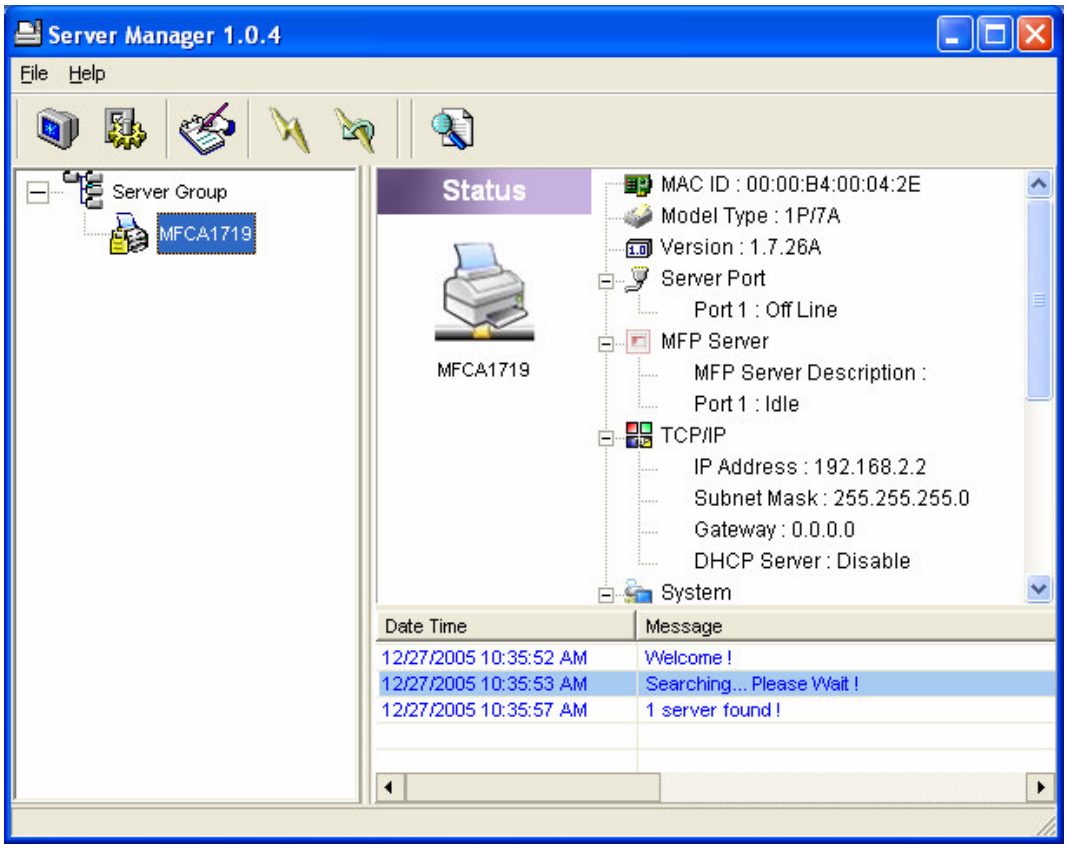
This chapter introduces MFP Server's system configuration utility in Windows environment. This utility provides the most complete management and configuration functions on the MFP Server side. This utility only provides configuration functions for MFP Server itself; it does not include configuration functions for client side or other file server in the network environment.

The Configuration Utility provides the following configuration and management functions:

- **Search MFP Server:** Search All Available MFP Servers on the Network.
- **Status:** Display MFP Server Network Status.
- **General Configuration:** Configure general settings about the MFP Server such as Server Name, Password, etc.
- **TCP/IP Configuration:** IP Address and DHCP Server Configuration.
- **System Configuration:** MFP Server Network Ability Setting and Firmware Upgrade.
- **MFP Server Management:** For administrator to manage the MFP Server. Administrator can force disconnect the current connection and setup idle time out of the MFP Server.
- **Report:** List the some information of All Available MFP Servers on the Network.

We will explain each function separately in the following section.

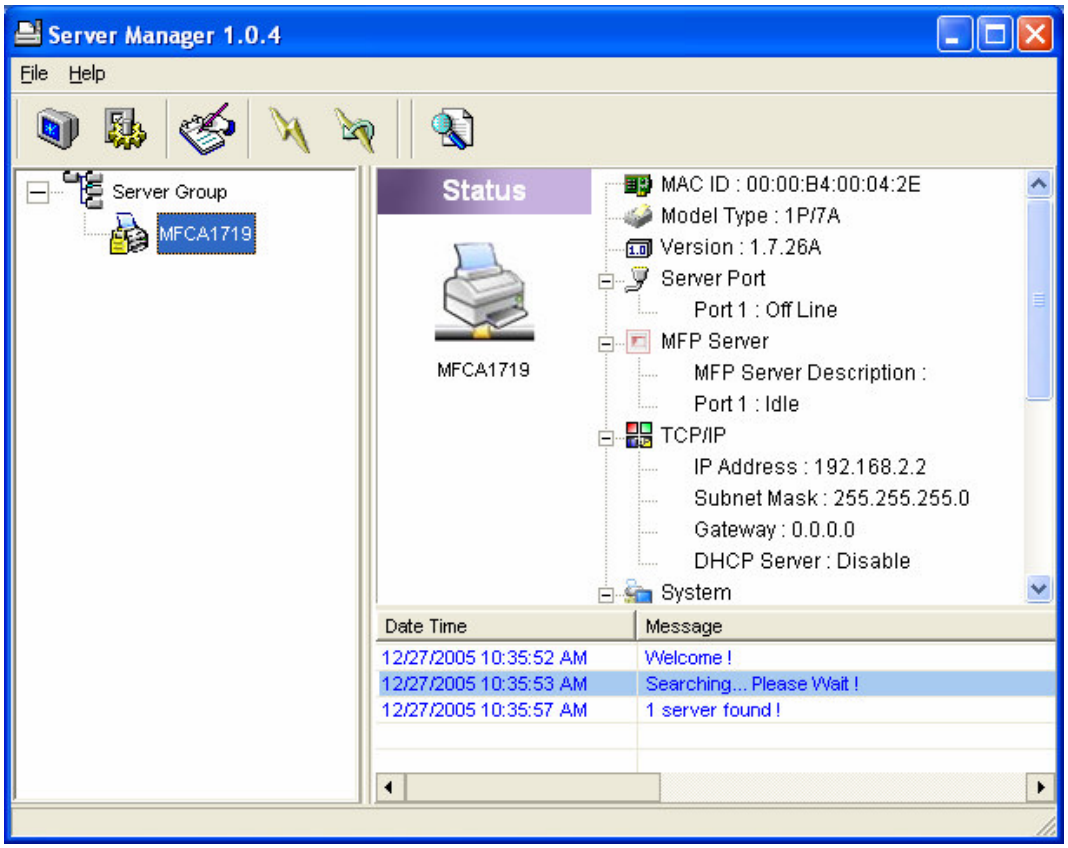
6.2 Search for All Available MFP Server



Every time when you run the “Server Manager” configuration utility, click the “Search” icon on the tool bar. The configuration utility will delay for several seconds because the utility is using system’s available network protocols to search for all MFP Servers on the network. All available MFP Servers will be listed under “Server Group” on the left side of the window.

You must select the MFP Server you would like to configure from the list. The system will, at the same time, display the selected MFP Server’s status on the right side of the window.

6.3 Status of MFP Server

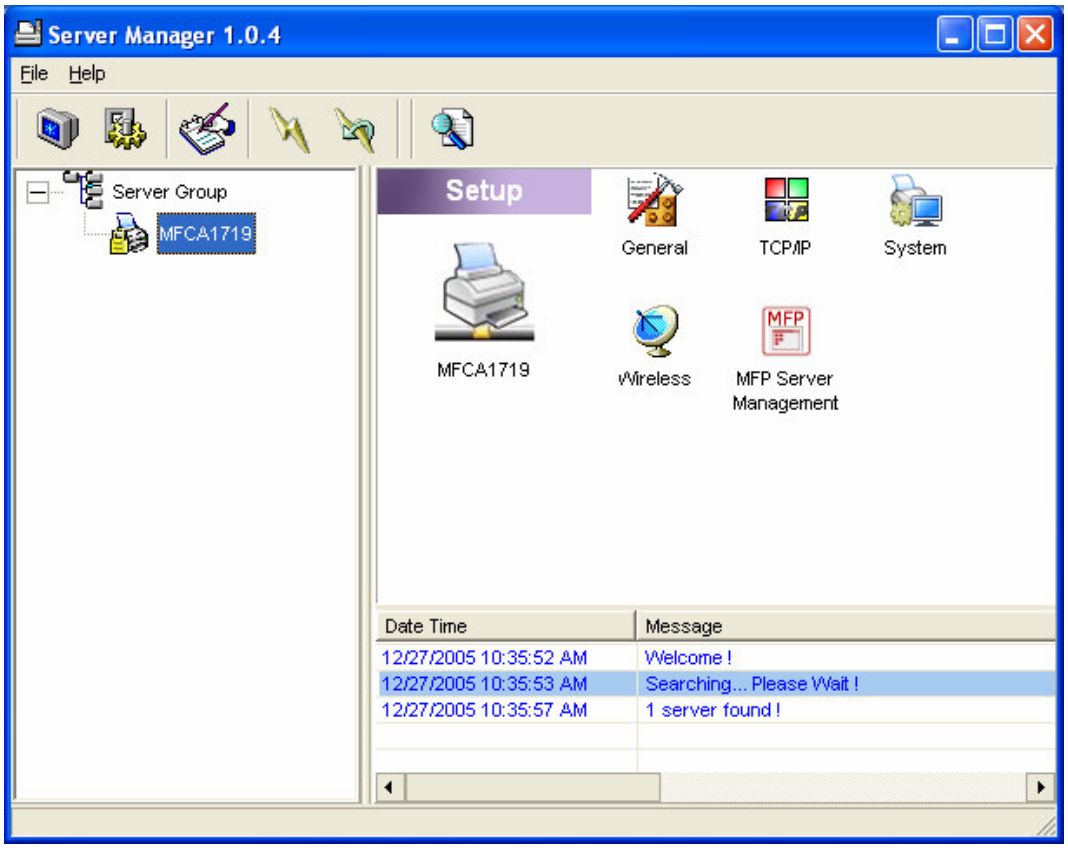


Click “Status” icon on the tool bar, the status of the currently selected MFP Server will be showed on the right side of the window. The information of the MFP Server displayed are including MAC ID, Model Type, Firmware Version, status of each server port, IP address, subnet mask, default gateway and supported printing protocols…etc.

You can refresh the MFP Server’s status by pressing the “Refresh” button .

You can restart the MFP Server by pressing the “Reboot” button .

6.4 Setup the MFP Server

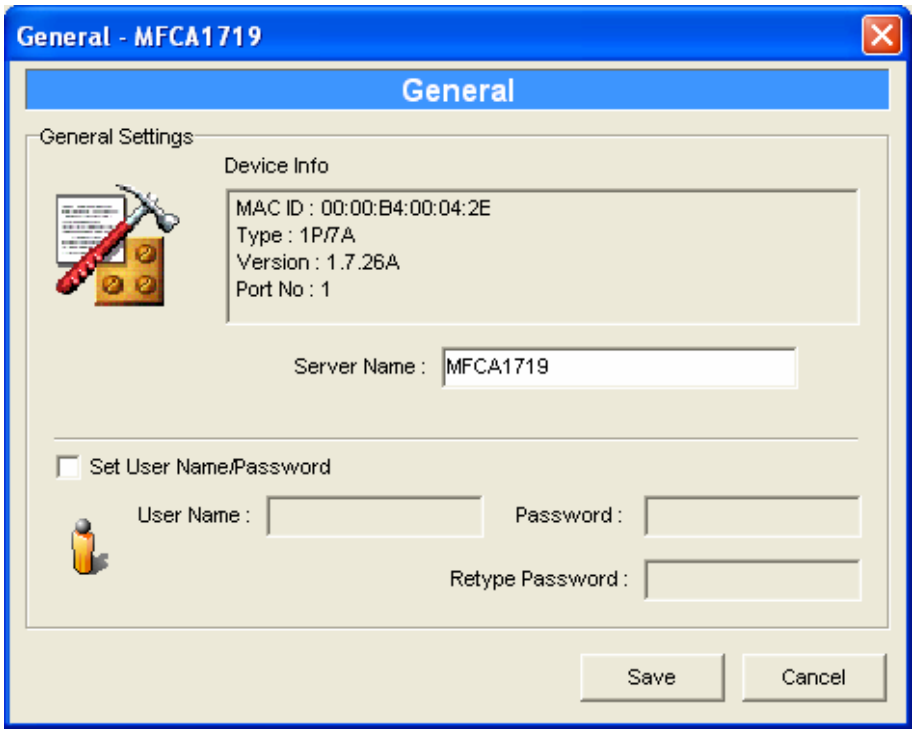


Click “Setup” icon on the tool bar, the setup items of the current selected MFP Server will be showed on the right side of the window.

Double click one of the icons to set up the selected MFP Server. A screen will pop up to verify “User Name” and “Password” of the MFP Server. The default values are: **User Name: admin, Password: 1234**.

Tip: *When you have finished the settings, please click “* *” to restart the MFP Server to let the settings take effect.*

6.5 General Configuration

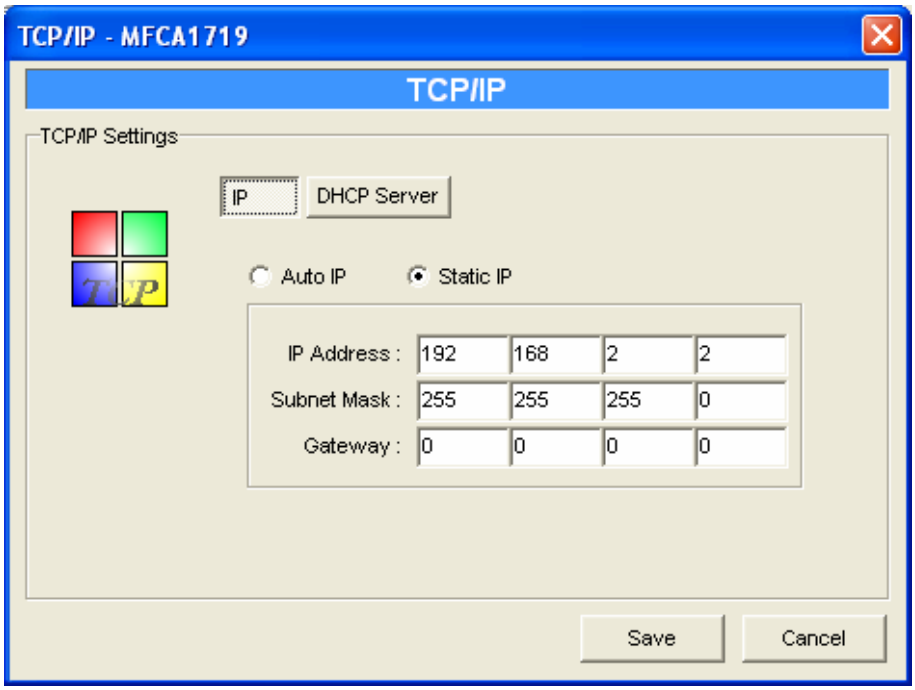


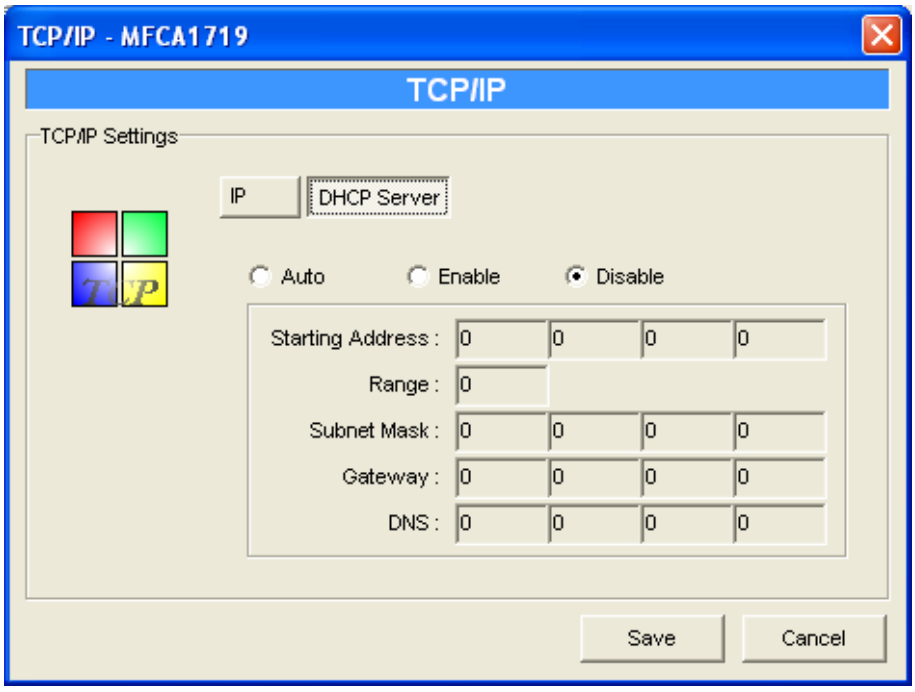
Double Click “General” icon and the General configuration window will pop-up. You can see basic MFP Server information in this page. You also can configure the “Server Name”, “User Name” and “Password” here.

Server Name, the name of the MFP Server. You can use this name to identify the MFP Server when you are searching for the MFP Server by the “Server Manger” utility.

User Name / **Password** is used to authenticate the administrator to login the MFP Server for configuring it from the “Server Manger” utility or the Web Management tool.

6.6 TCP/IP Configuration



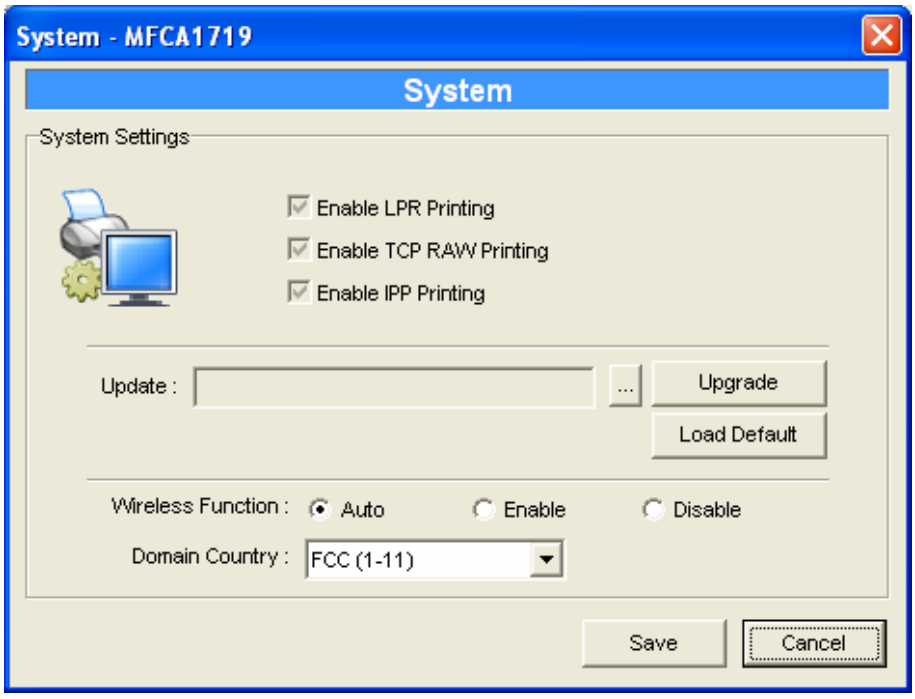


Double Click “TCP/IP” icon and the TCP/IP configuration window will pop-up. You can configure the MFP Server to automatically get IP from DHCP server or manually specify static IP. The MFP Server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

Click the “IP” button to enter the IP setting page. If you need the MFP Server to automatically get an IP from DHCP server, select “Auto IP”. You also can select “Static IP” to manually assign “IP Address”, “Subnet Mask” and “Gateway” for the MFP Server.

Click the “DHCP Server” button to enter into the DHCP server’s setting page. You can enable/disable the DHCP server and assign a range of IP addresses here. By the default, the DHCP server is disabled. If the DHCP is enabled, you have to assign a range of IP addresses. Fill in the “Starting Address”, “Range”, “Subnet Mask”, “Gateway” and “DNS”; then the MFP Server will assign a unique IP for each DHCP client. You have anther option called “Auto” for the DHCP server. It means the MFP Server can detect any DHCP server automatically and if the DHCP server doesn’t exist, the MFP Server will turn on his DHCP server.

6.7 System Configuration



Double Click “System” icon and the System configuration window will pop-up. In the System configuration page, you can see all available printing protocols and upgrade the new firmware for this MFP Server.

Upgrade Firmware: You can use this “Upgrade Firmware” tool to update the newest firmware of the MFP Server. Click “...” button and select the correct firmware in your PC. After selecting the firmware file, click the “Upgrade” button to finish the firmware update process.

Tip: *Before you upgrade the firmware, please make sure that the IP Address settings of the MFP Server are in the same network as your computer.*

Load Default: If you want to reset the MFP Server to default factory settings, please click “Load Default”.

Wireless Function: You can select to “Enable” or “Disable” the wireless function manually. If you manually enable wireless function, the MFP Server’s wireless LAN will be always enabled and Ethernet will be always disabled. If you manually disable the wireless function, the MFP Server’s wireless LAN will be always disabled and Ethernet will be always enabled. You can also select “Auto” to let the MFP Server automatically decide to enable or disable the wireless function. The MFP Server only can work in either Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the MFP Server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If the MFP Server is connected to an active network by Ethernet cable when starting up, the MFP Server will run in Ethernet mode. If the MFP Server is not connected to an active network by Ethernet cable when starting up, the MFP Server will run in wireless LAN mode. The MFP Server default is in “Auto” mode.

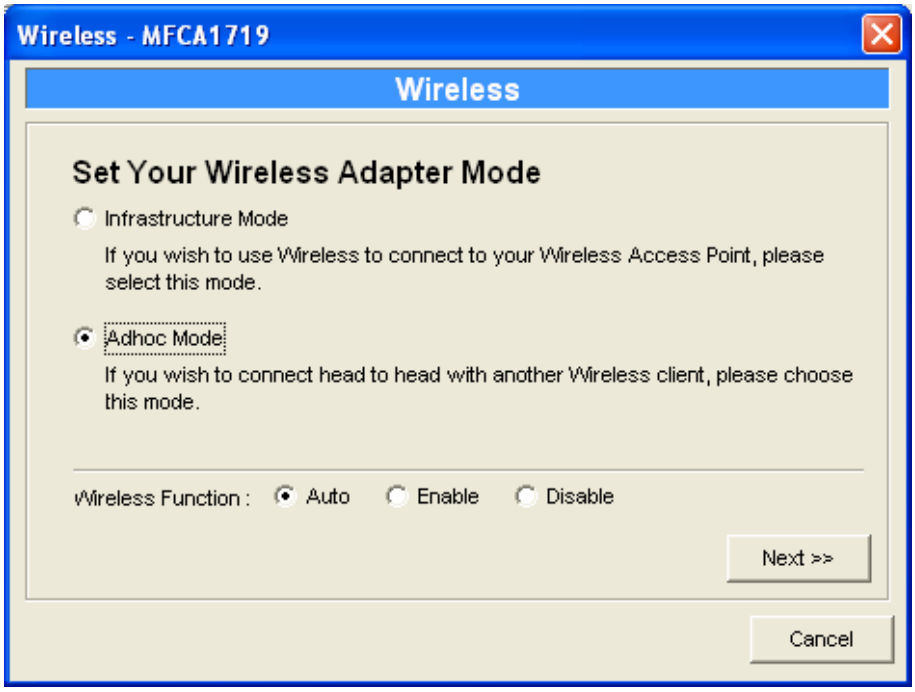
Domain Country: The wireless channels are different from country to country. Generally, the channels are from 1 to 11 in USA and from 1 to 13 in Europe. The operating channel will be set to the MFP Server before importing. If you are in different country, please make sure that you have set the available channels according to your location.

6.8 Wireless Configuration (For Wireless Version Only)

If you want to use the MFP Server through wireless LAN, please set up the MFP Server through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable and restart the MFP Server, then you can start to use the MFP Server through wireless LAN. If the wireless configuration does not work, please plug the Ethernet cable again, restart the MFP Server and configure the MFP Server through Ethernet until the wireless LAN settings are correct.

The default settings of the MFP Server wireless function are as follows.

- **Mode: Ad-Hoc**
- **SSID: Default**
- **Channel: 11**


Wireless - MFCA1719
Wireless
Set Your Wireless Adapter Mode
Infrastructure Mode
If you wish to use Wireless to connect to your Wireless Access Point, please select this mode.
Adhoc Mode
If you wish to connect head to head with another Wireless client, please choose this mode.
Wireless Function :
Auto
Enable
Disable
Next >>
Cancel

Double Click “Wireless” icon and the wireless configuration window will pop-up. If you use access point to build up wireless network, you have to select “Infrastructure Mode”. If you do not have any access point and want to use peer-to-peer connection to build up wireless network, you have to select “Ad-Hoc Mode”.

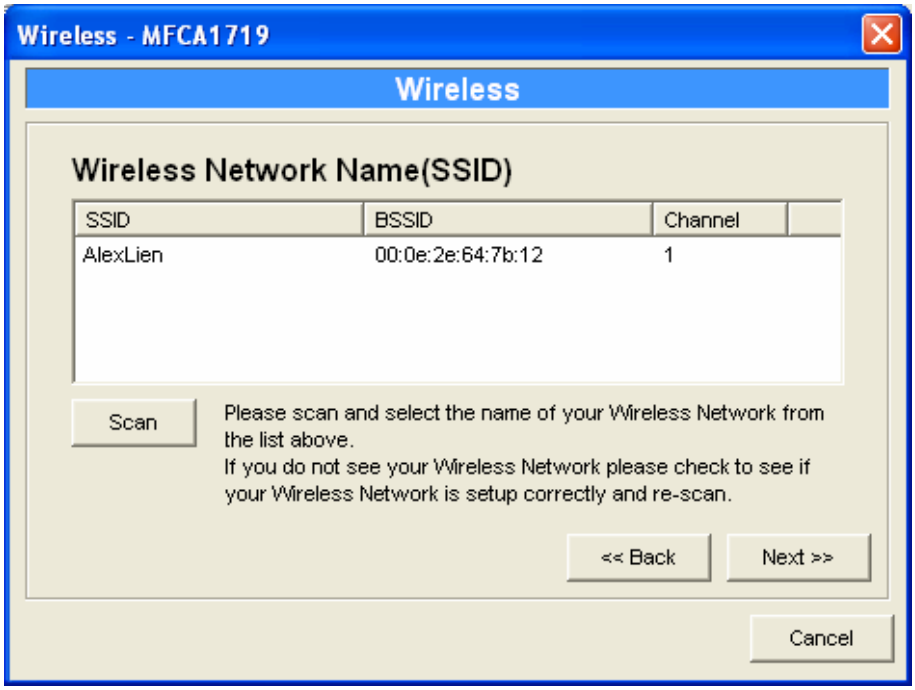
After selecting the operation modes of the wireless function, click “Next” to go to further detailed configuration.

Infrastructure Mode:

Wireless - MFCA1719
Wireless
Connect to Your Wireless Network
Scan For Your local Wireless Network
Let the Wizard automatically scan for your Wireless Network(SSID)
Assign Your Wireless Network Manually
Enter your own Wireless Network ID (SSID)Manually
<< Back
Next >>
Cancel

In the Infrastructure mode, you have to let the MFP Server associate with an access point. You let the MFP Server scan for an available access point automatically or manually assign the SSID of the access point you want to use.

If you select to let the MFP Server scan for an available access point, the following window will pop up.

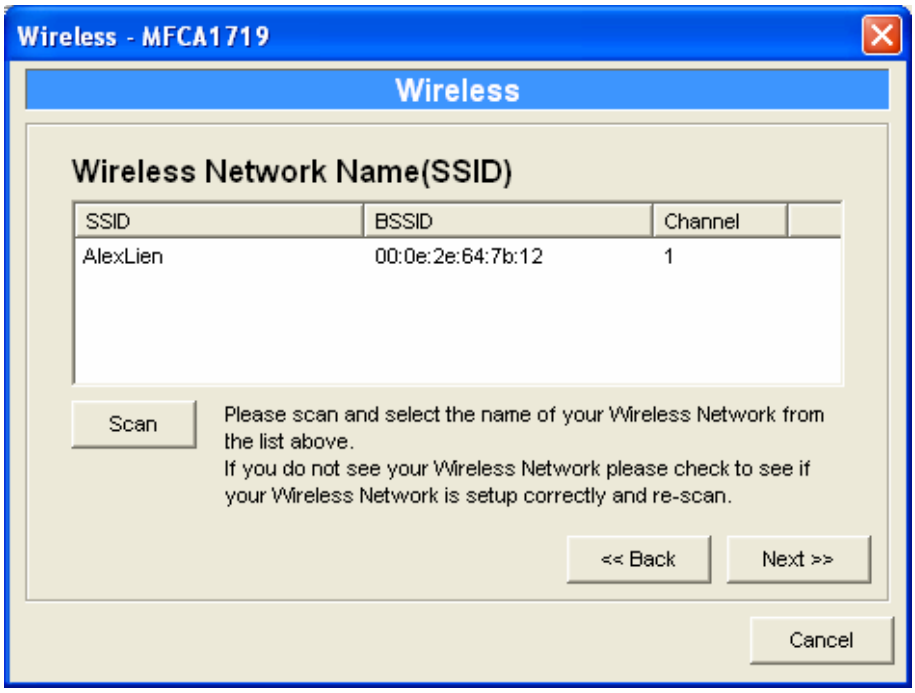


The table will list the available access points near the MFP Server. Select an access point in the list and click “Next”. If you cannot find the access point that you want to use, click “Scan” to let the MFP Server scan again.

Ad Hoc Mode:

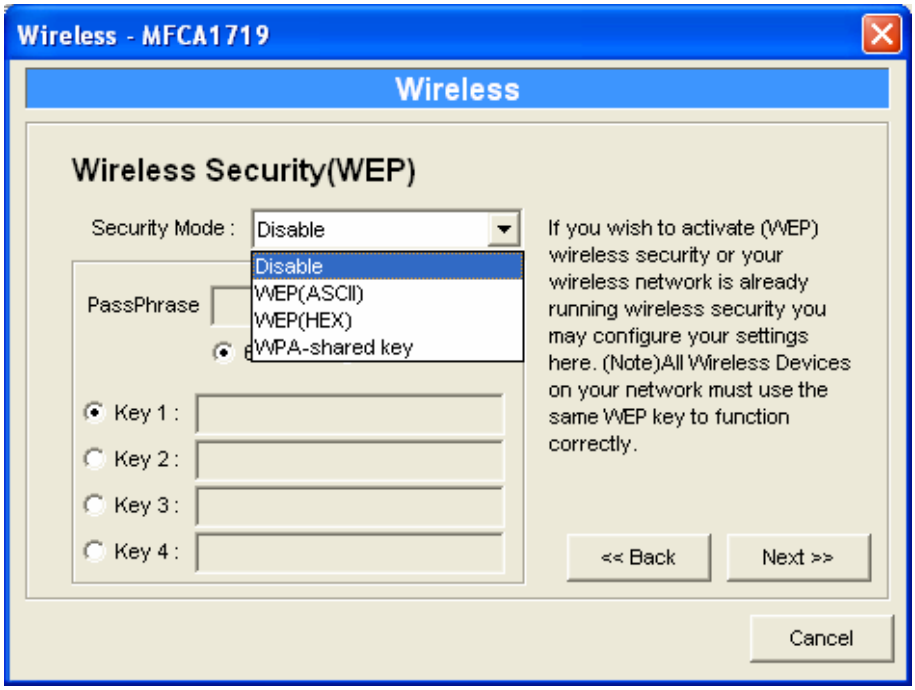
In the Ad-Hoc mode, you can let the MFP Server automatically associate with other wireless station or manually assign the SSID of your wireless network. You can let the MFP Server automatically select the channel that is the same with the wireless station that you want to connect or manually assign a channel.

If you select to let the MFP Server scan for an active wireless station, the following window will pop up.



The list is the scanned active wireless stations. Select a wireless station in the list and click “Next”. If you cannot find the wireless station that you want the MFP Server to communicate with, click “Scan” to let the MFP Server scan again.

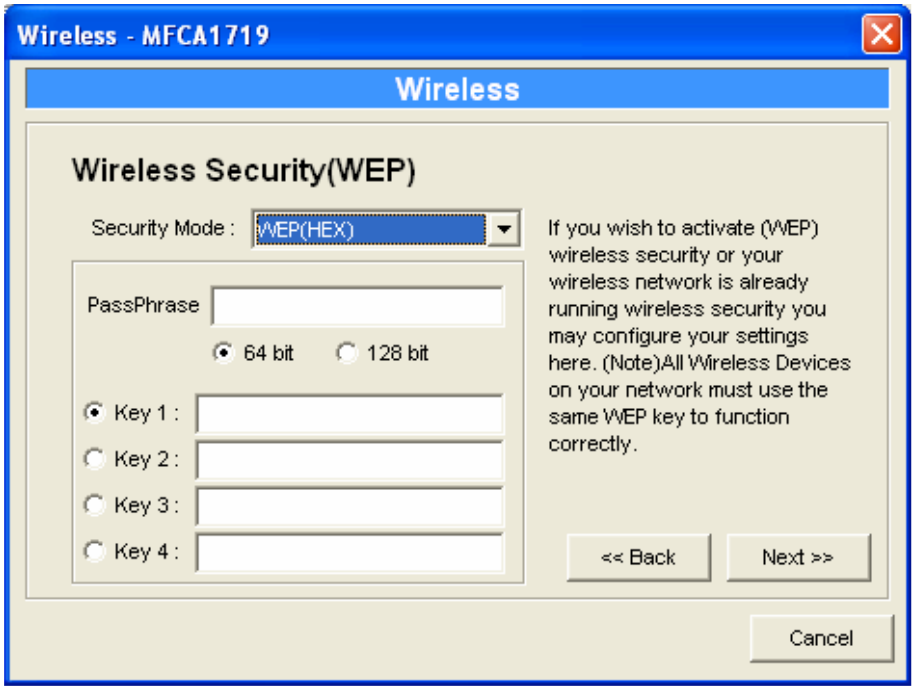
Both “Infrastructure” and “Ad-Hoc” mode have to go through the following procedure:


Wireless - MFCA1719
Wireless
Wireless Security(WEP)
Security Mode :
Disable
Disable
WEP(ASCII)
WEP(HEX)
WPA-shared key
PassPhrase
Key 1 :
Key 2 :
Key 3 :
Key 4 :
If you wish to activate (WEP) wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices on your network must use the same WEP key to function correctly.
<< Back
Next >>
Cancel

This MFP Server supports WEP and WPA-PSK security mode. If you want to use WEP encryption to protect your wireless network, you have to select “WEP(ASCII)” or “WEP(HEX)”. If you want to use WPA-PSK, you have to select “WPA-shared key”. The wireless security setting should be the same with other wireless devices in the same network.

WEP Security Mode:

Wireless - MFCA1719
Wireless
Wireless Security(WEP)
Security Mode :
WEP(ASCII)
If you wish to activate (WEP) wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices on your network must use the same WEP key to function correctly.
PassPhrase
64 bit
128 bit
Key 1 :
Key 2 :
Key 3 :
Key 4 :
<< Back
Next >>
Cancel


Wireless - MFCA1719
Wireless
Wireless Security(WEP)
Security Mode :
WEP(HEX)
If you wish to activate (WEP) wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices on your network must use the same WEP key to function correctly.
PassPhrase
64 bit
128 bit
Key 1 :
Key 2 :
Key 3 :
Key 4 :
<< Back
Next >>
Cancel

You can select “64 bit” or “128 bit” length and “Hexadecimal” or “ASCII” format for the encryption key. Longer key length can provide stronger security but worth communication performance.

PassPhrase – A “PassPhrase” simplifies the WEP encryption process by automatically generating the WEP encryption keys for the MFP Server. This setting is only valid when the security mode is in “WEP(HEX)”.

Key 1 to Key 4 – Enter four key values by following the rules below and select one key as the default key.

If the key length is 64-bit, enter 10-digit Hex values or 5-digit ASCII values as the encryption keys. For example: “0123456aef“ or “Guest“.

If the key length is 128-bit, enter 26-digit Hex values or 13-digit ASCII values as the encryption keys. For example: “01234567890123456789abcdef“ or “administrator“.

WPA-shared key Security Mode:

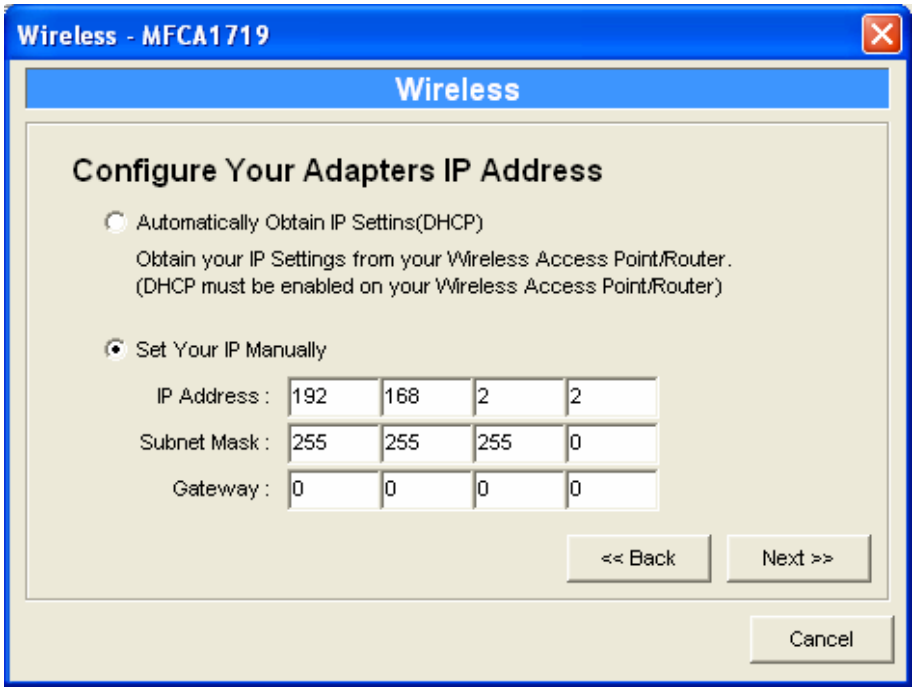
Wireless - MFCA1719
Wireless
Wireless Security(WEP)
Security Mode :
WPA-shared key
If you wish to activate (WEP) wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices on your network must use the same WEP key to function correctly.
WPA Algorithms :
TKIP
Shared Key :
<< Back
Next >>
Cancel

When “WPA-shared key”, also named “WPA-PSK” requires users to select the advanced encryption methods, i.e. TKIP and enter a set of shared key.

TKIP – TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.

Shared Key – Enter 8 to 63 digits of ASCII format to be the key for the authentication within the network.

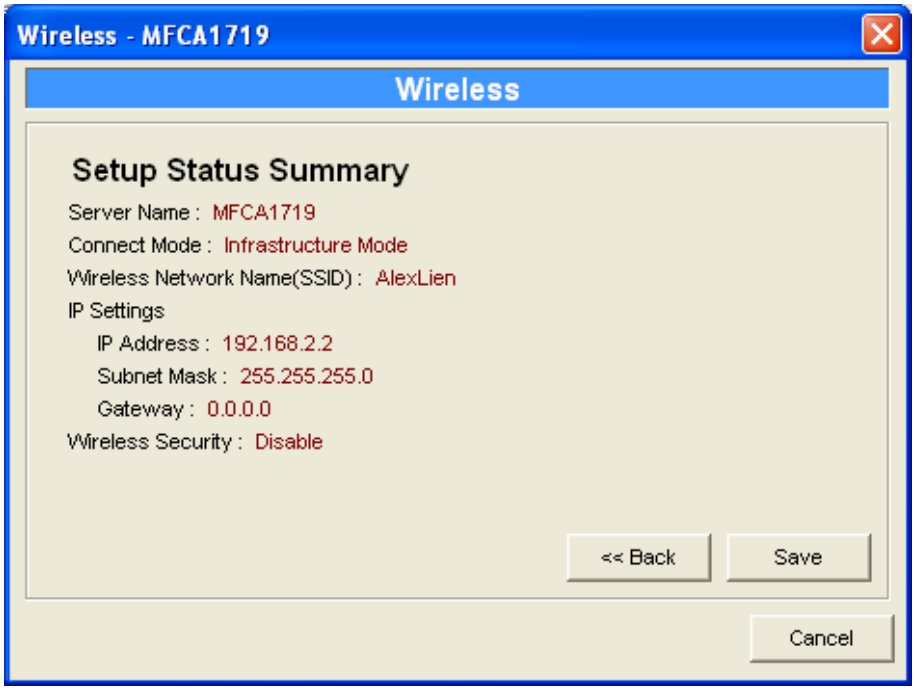
When you finish configuring the wireless security, click “Next” to go to next step.


Wireless - MFCA1719
Wireless
Configure Your Adapters IP Address
Automatically Obtain IP Settins(DHCP)
Obtain your IP Settings from your Wireless Access Point/Router.
(DHCP must be enabled on your Wireless Access Point/Router)
Set Your IP Manually
IP Address : 192 168 2 2
Subnet Mask : 255 255 255 0
Gateway : 0 0 0 0
<< Back
Next >>
Cancel

You can select to let the MFP Server automatically obtain IP settings with DHCP client or manually assign the IP settings.

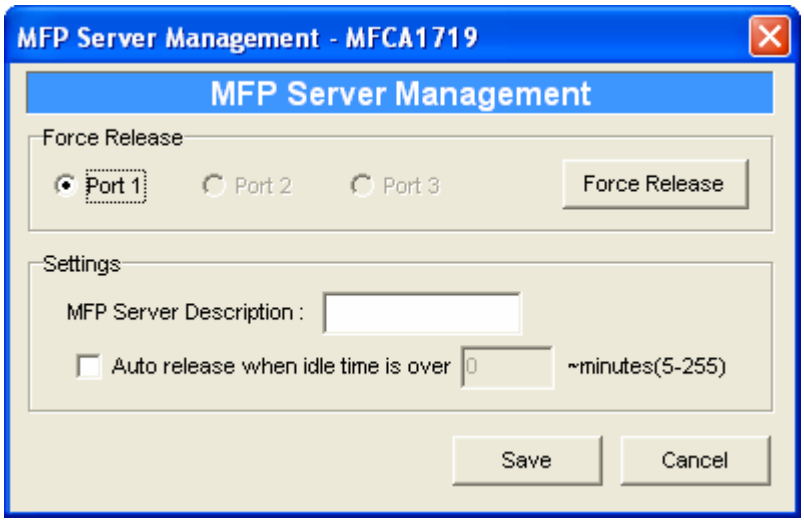
If you manually assign the IP settings, you have to enter IP address, subnet mask and default gateway address.

When you finish configuring the IP settings, click “Next” to confirm the IP Address configuration.



Click “Save” to save the wireless configuration.

6.9 MFP Server Management



Double Click “MFP Server Management” icon and the MFP Server configuration window will pop-up. You are able to manage the MFP Server as below.

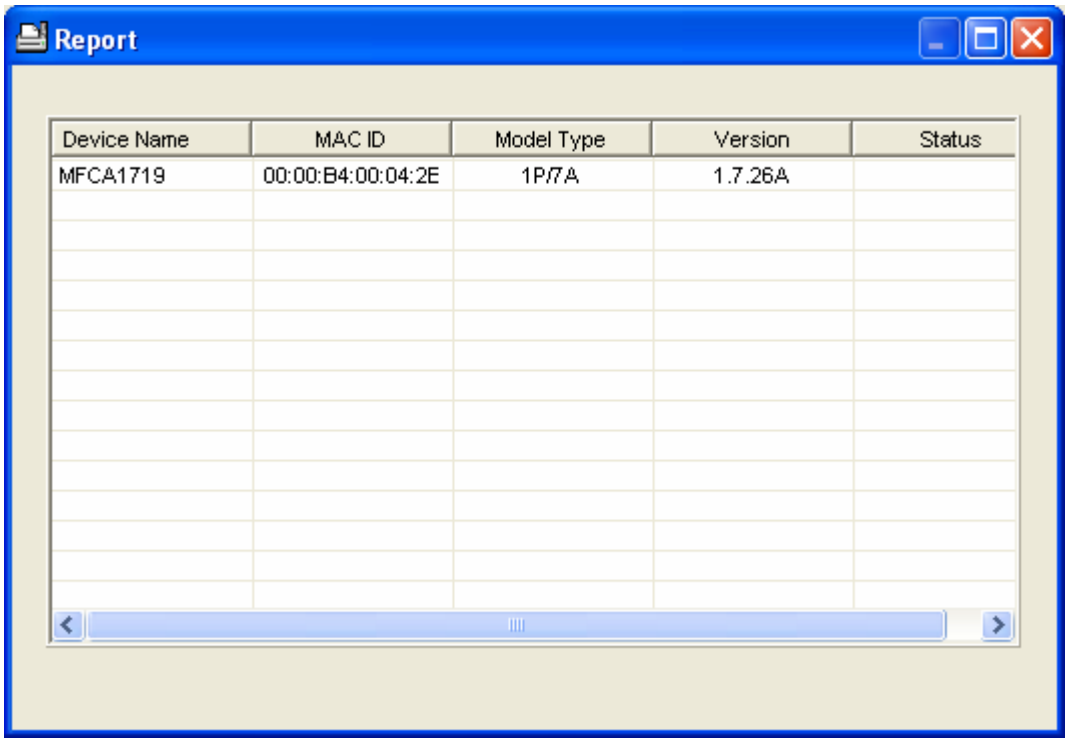
Force Release: Select the port number and then click “Force Release” will help to you disconnect the current connection between the user and the connected device. It is very useful when a user forgets to disconnect the MFP, administrator can force to disconnect the connection and let the MFP be free to use.

MFP Server Description: Enter 15 digits description of the MFP Server such as location or other information to help user to find the MFP Server easily.

Auto Release when idle timeout: To avoid users occupy the MFP overtime; administrator can setup idle timeout. It is used to disconnect the current connection after the MFP is idle for a specified period of time. By default, it is never timeout.

Tip: *After all users have installed the MFP successfully. It is recommended that enable the “Auto Release when idle timeout” setting so that the MFP resource will not be occupied easily by only one user.*

6.10 Report



Click “Report” icon on the tool bar, the Report window will pop up.

The report lists basic information of all available MFP Servers on the network. The information includes Device Name, MAC ID, Model Type and Firmware Version of MFP Server.

7. Web Management

7.1 Introduction

MFP Server can be configured and managed on the Web. Through Local Area Network, or even Internet, administrator can easily configure and manage MFP Server's various main functions in browsers. Simply enter MFP Server's IP address into your browser's address field to manage a MFP Server by MFP Server's built-in Web Server.

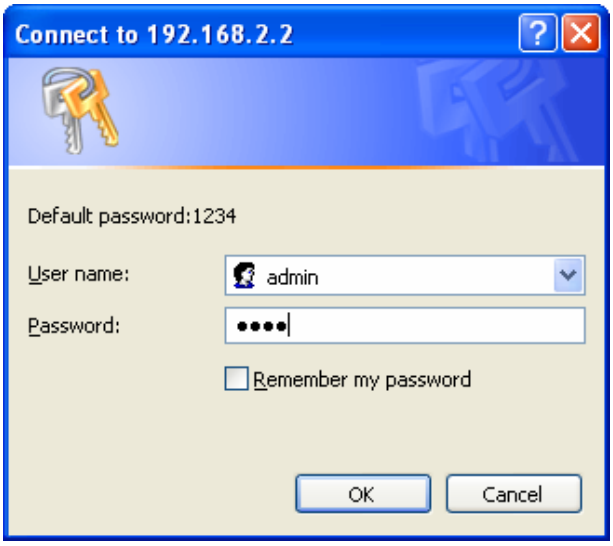
The default IP Address, User Name and Password settings of the MFP Server are as follows.

IP Address: 192.168.2.2
User Name: Admin
Password: 1234

7.2 Login

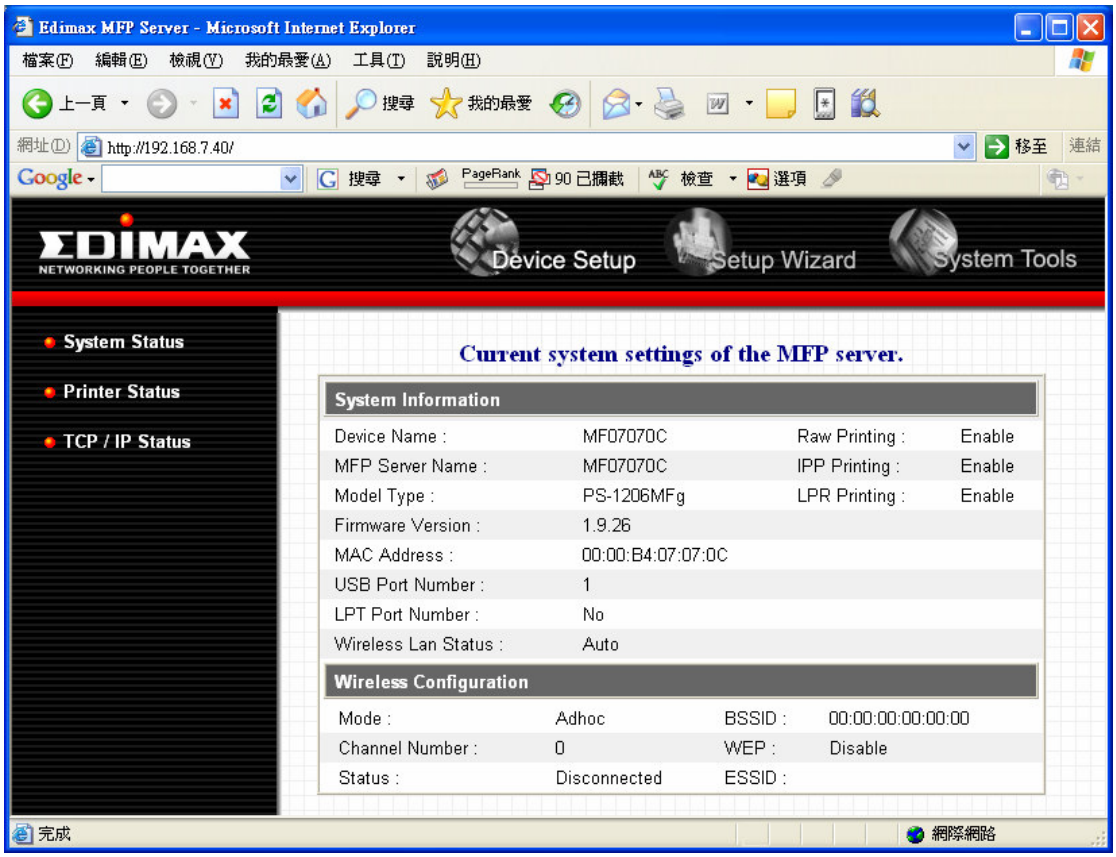
You may use any Web Browser to review the status or configure the settings of the MFP Server. After entering the IP address of the MFP Server, a login page display. You have to enter correct “User Name” and “Password” before going to the Web Management pages.

Note: *Default User Name is “admin”, default password is “1234”.*



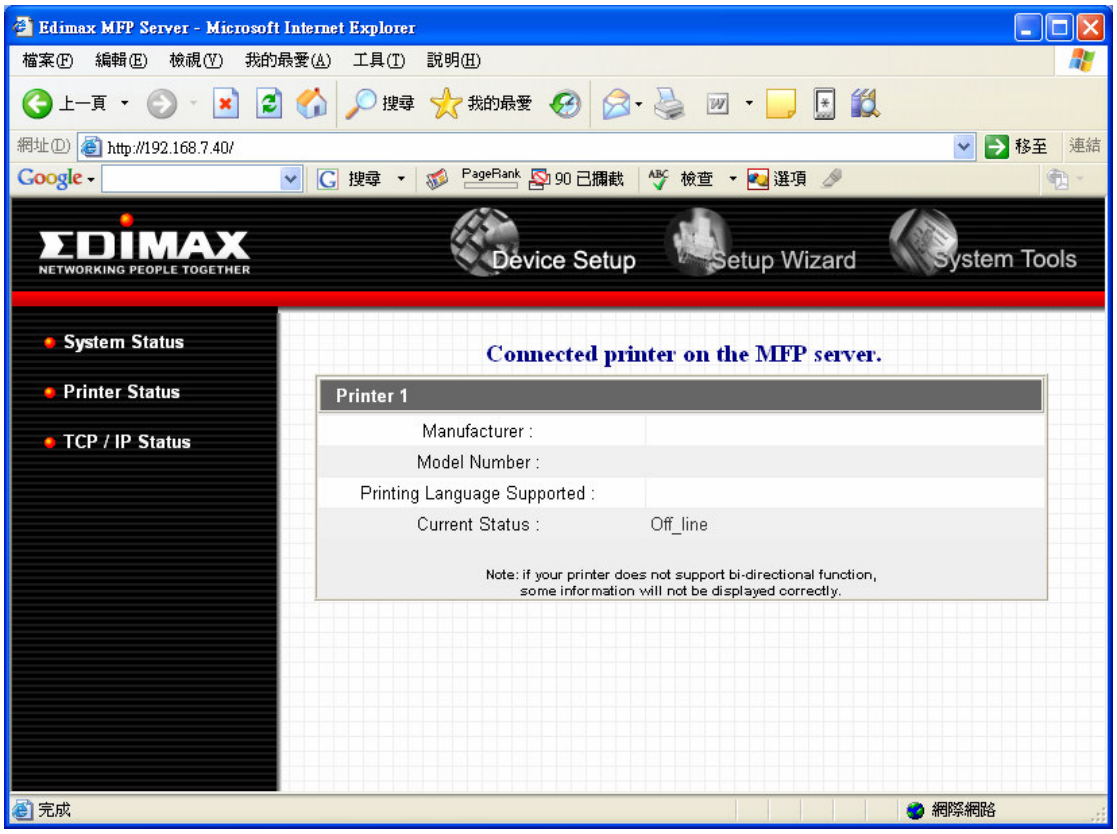
7.3 Device Setup

7.3.1 System



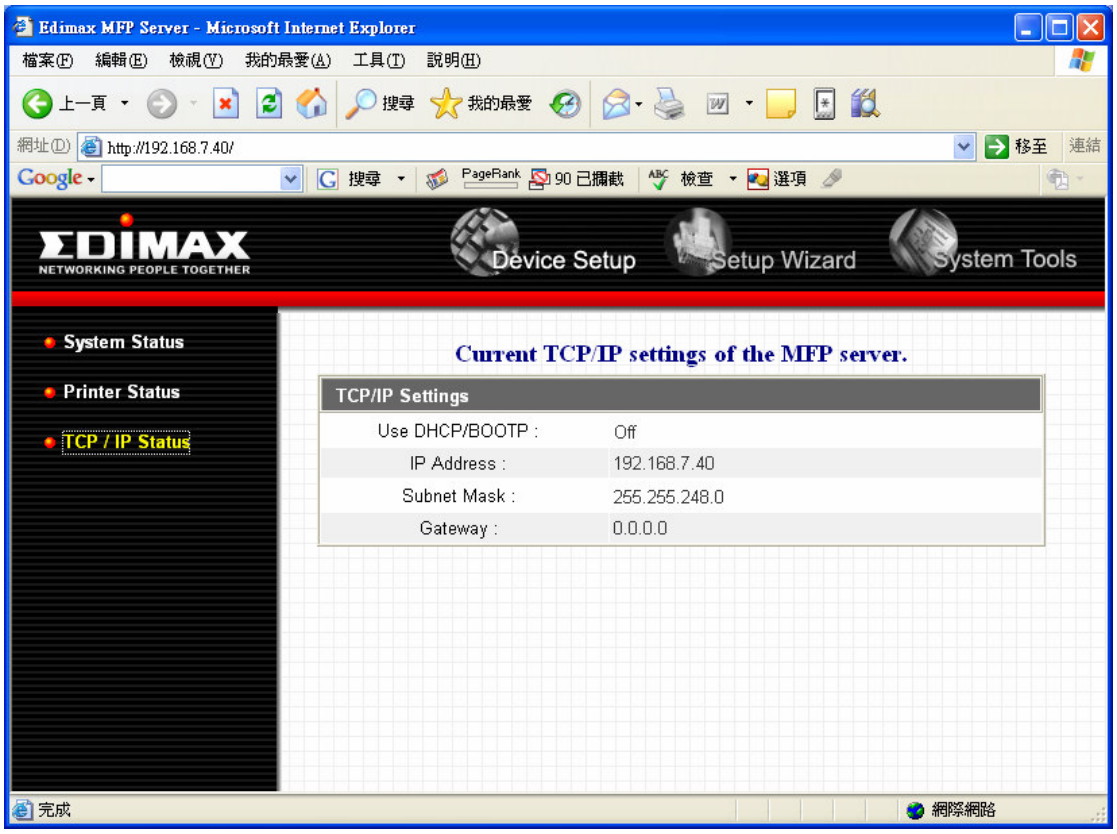
System Information includes “Device Name”, “MFP Server Name”, “Model Type”, “Firmware Version”, “MAC Address”, “Wireless LAN Configuration” (Wireless Version Only), and the protocols enabled status, etc.

7.3.2 Printer



This page lists information of MFP or printer connected to the MFP Server port.

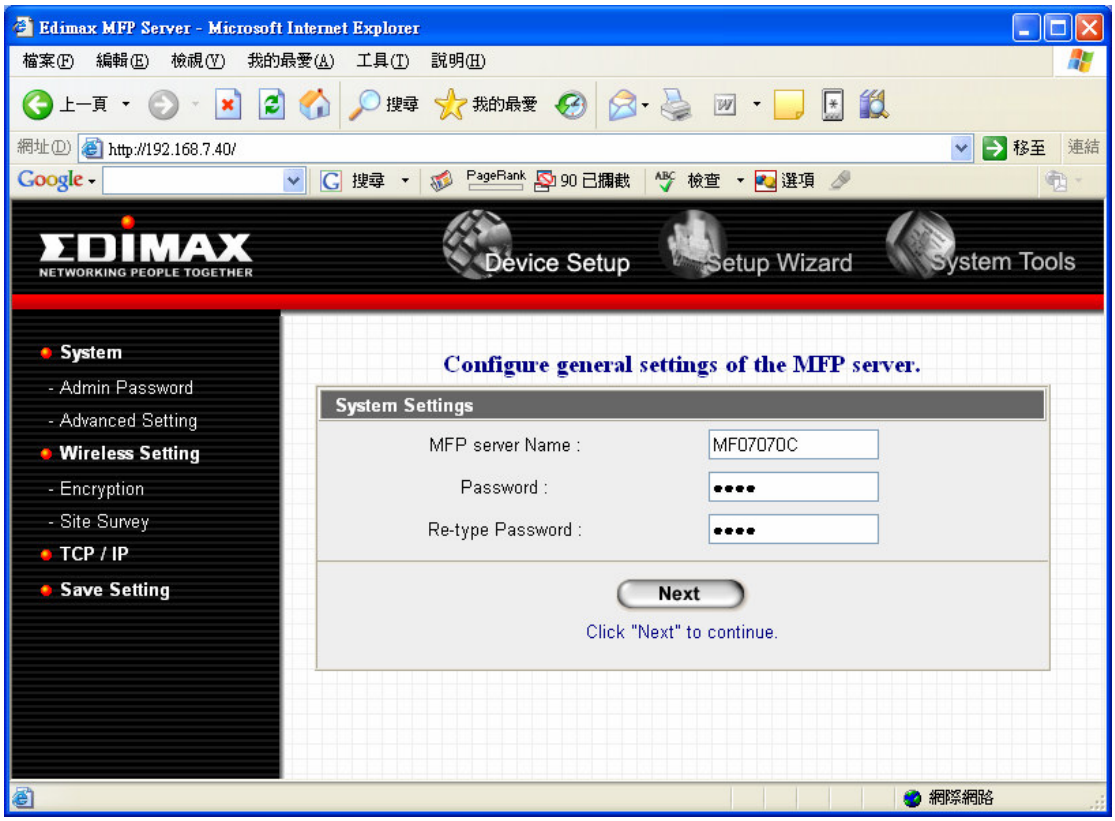
7.3.3 TCP/IP



This page lists all TCP/IP settings of the MFP Server including “IP Address”, “Subnet Mask” and “Gateway”. It also can tell the DHCP server is “On” or “Off”.

7.4 Setup Wizard

7.4.1 System



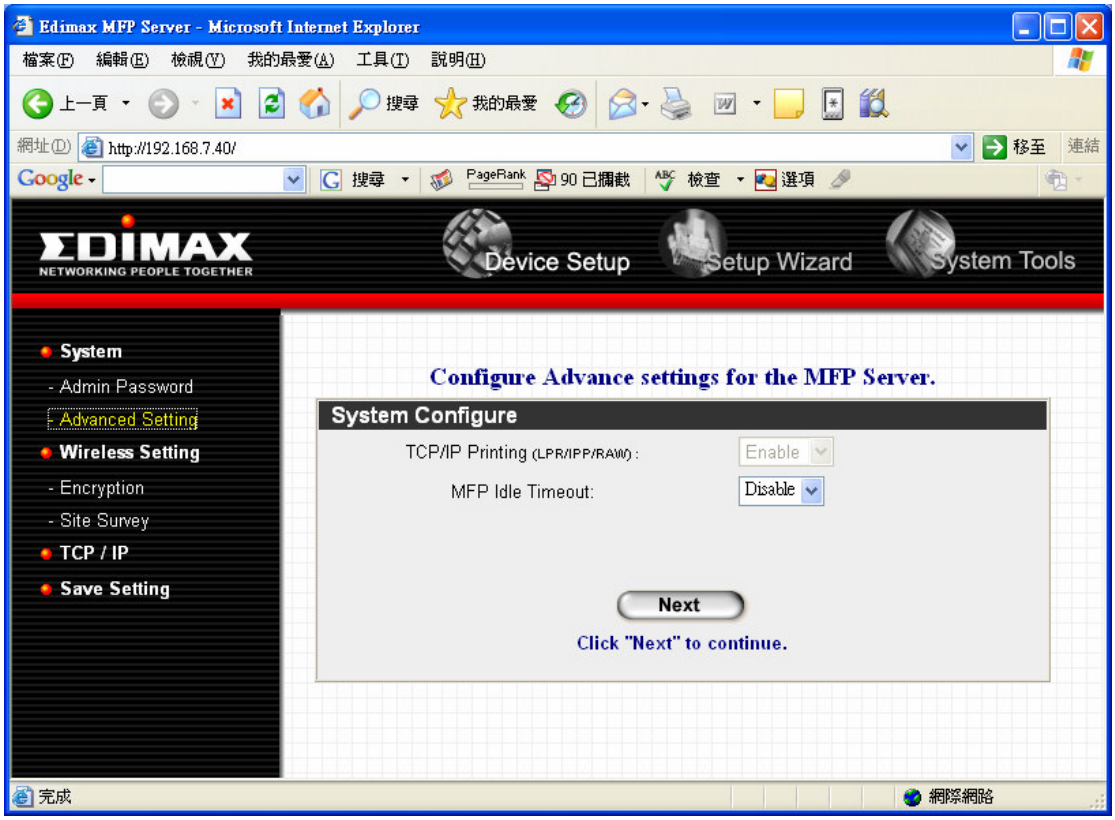
You can change the MFP Server name and password of the MFP Server from here.

MFP Server Name, the name of the MFP Server. You can use this name to identify the MFP Server when you are searching for the MFP Server by the “Server Manager” utilities.

Password, enter the password you want to change to the MFP Server. The password can be up to 7-digit alphanumeric format. The default password is “1234”.

Re-type Password, enter the same password for the MFP Server again.

7.4.1.1 Advanced Settings



Some advanced feature of the MFP Server can be set here.

TCP/IP Printing: This MFP Server supports TCP/IP network protocol and LPR/IPP printing protocols. By default these protocols are enabled.

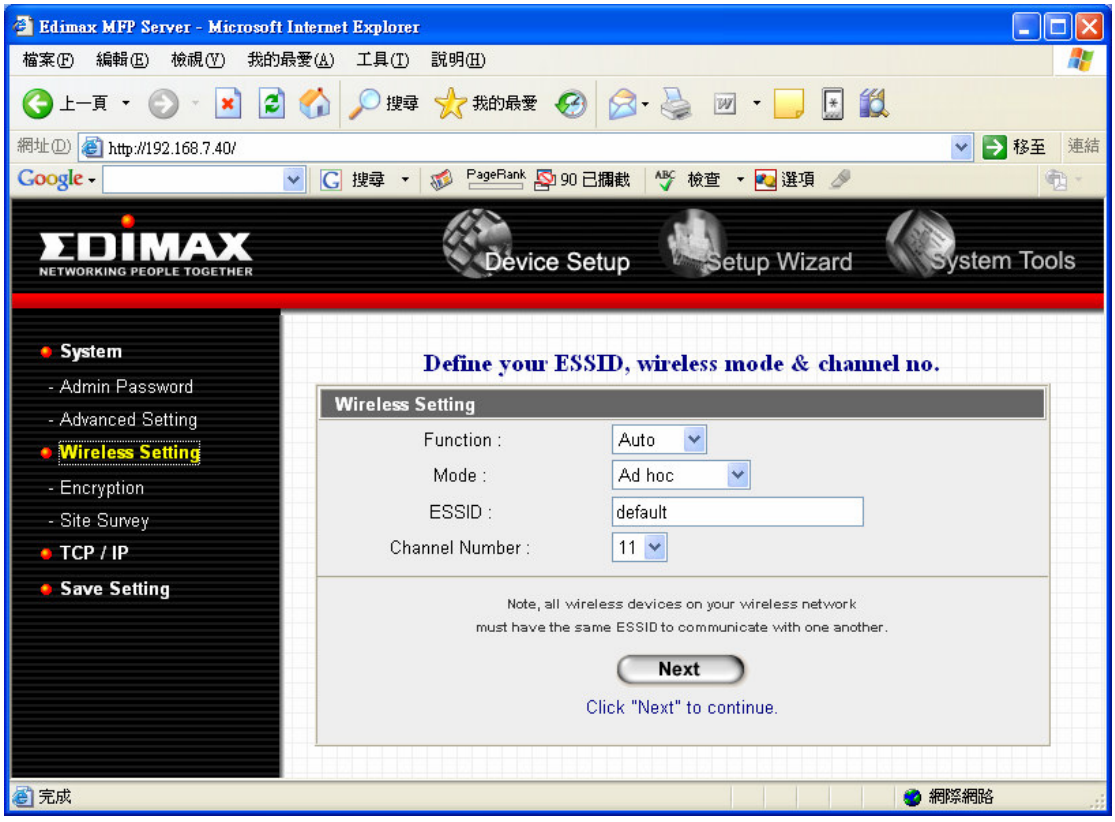
MFP Idle Timeout: To avoid users occupy the MFP overtime; administrator can enable to set the idle timeout. It is used to disconnect the current connection after the MFP is idle for a specified period of time. The setting range is from 5 to 255 minutes. By default, it is never timeout.

Tip: *After all users have installed the MFP successfully. It is recommended that enable the "Auto Release when idle timeout" setting so that the MFP resource will not be occupied easily by only one user.*

7.4.2 Wireless

If you want to use the MFP Server through wireless LAN, please set up the MFP Server through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable and restart the MFP Server, then you can start to use the MFP Server through wireless LAN. If the wireless configuration does not work, please plug the Ethernet cable again, restart the MFP Server and configure the MFP Server through Ethernet until the wireless LAN settings are correct.

7.4.2.1 General Setting



You can enable/disable the wireless function and set up the wireless parameters for the MFP Server from here. The parameters include “Function”, “Mode”, “ESSID” and “Channel Number”. You can manually set the wireless network that you want to connect in this page or use the “Site Survey” function to automatically search for an available wireless network and associate with it.

Function is for user to disable, enable or let the MFP Server auto select to connect to the wired or wireless network. If “Disable” is selected, the MFP Server can only connect to the network through wired Ethernet. If “Enable” is selected, the MFP Server can only connect to the network through Wireless LAN. If “Auto” is selected, the MFP Server can automatically decide to enable or disable the wireless function. The MFP Server only can work in either Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the MFP Server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If the MFP Server is connected to an active network by Ethernet cable when starting up, the MFP Server will run in Ethernet mode. If the MFP Server is not connected to an active network by Ethernet cable when starting up, the MFP Server will run in wireless LAN mode. The MFP Server default is in “Auto” mode.

Mode is the operation mode of wireless station. You can choose either “Ad Hoc” or “Infrastructure” mode. If you do not have any access point and want to use peer-to-peer connection, you have to choose “Ad Hoc” mode. If you have an access point as the wireless LAN infrastructure, you have to choose “Infrastructure” mode.

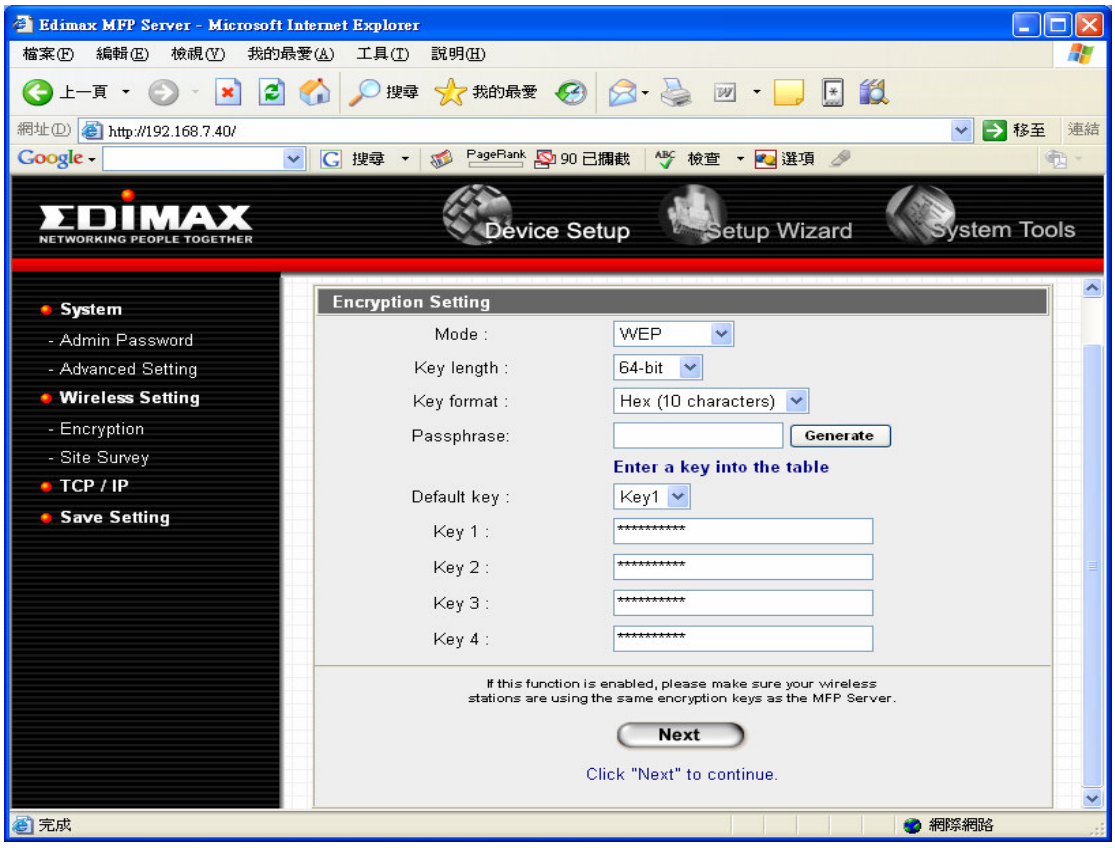
ESSID is the unique name identified by in a wireless LAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations and access points in the same WLAN network are the same.

Channel Number is the channel number of your wireless LAN. Please make sure that the channel number of all stations and access points in the same WLAN network are the same.

7.4.2.2 Encryption

This MFP Server supports WEP and WPA-PSK security mode. If you want to use WEP encryption to protect your wireless network, you have to select “WEP”. If you want to use WPA-PSK, you have to select “WPA-PSK”. The wireless security setting should be the same with other wireless devices in the same network.

WEP Security Mode:



Key Length – You can choose “64-bit” to use WEP with 64-bit key length encryption or choose “128-bit” to use WEP with 128-bit key length encryption. The longer key length can provide better security but worse transmission throughput.

Key Format – You may select to use ASCII Characters (alphanumeric format) or Hexadecimal digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.

PassPhrase – A “PassPhrase” simplifies the WEP encryption process by automatically generating the WEP encryption keys for the MFP Server.

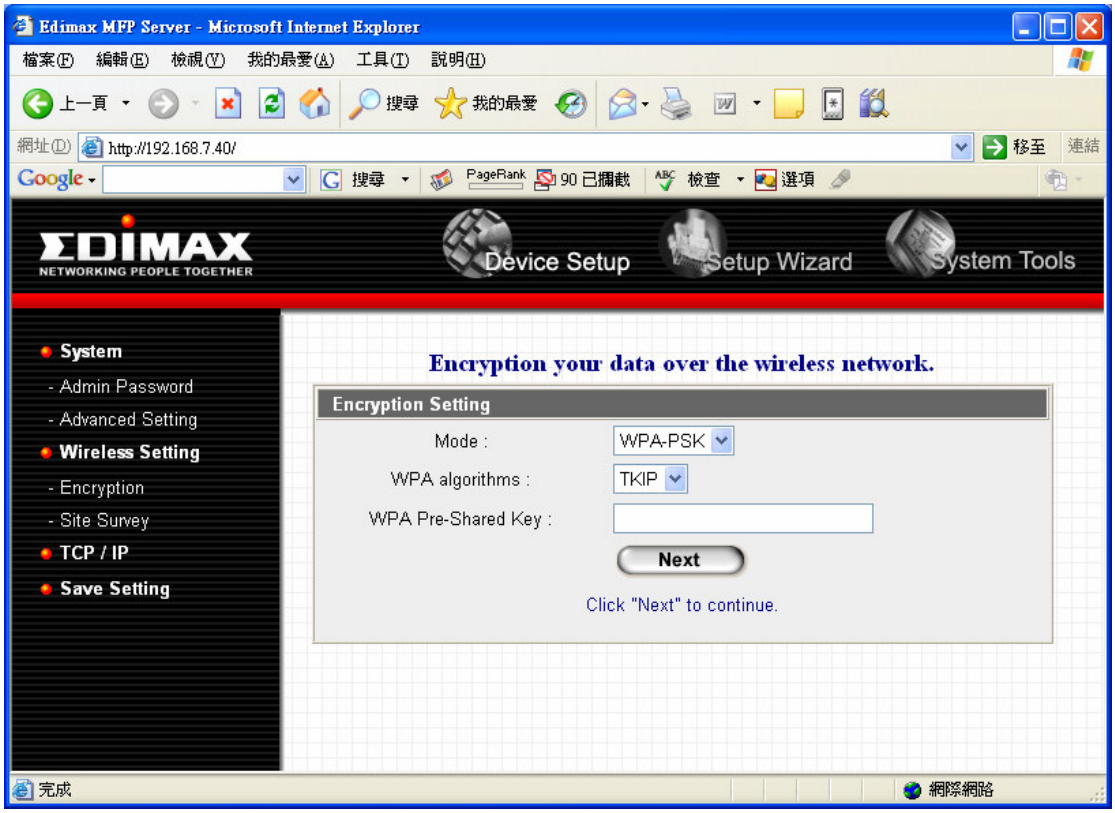
Default Key – Select one of the four keys to encrypt your data. Only the key you select it in the “Default key” will take effect.

Key 1 – Key 4 – The WEP keys are used to encrypt data transmitted within the wireless network. Fill the text box by following the rules below.

64-bit WEP: input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII character as the encryption keys. For example: “0123456aef“ or “Guest“.

128-bit WEP: input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 10-digit ASCII characters as the encryption keys. For example: “01234567890123456789abcdef“ or “administrator“.

WPA-PSK Security Mode:



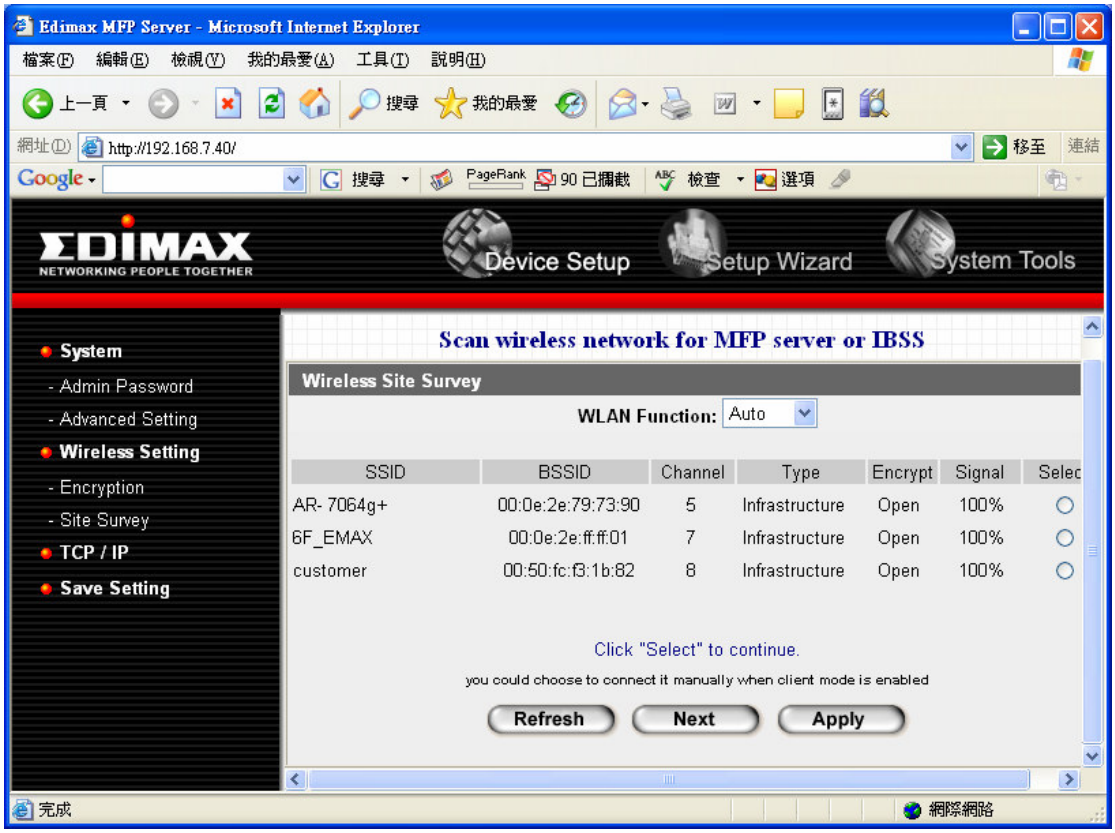
"WPA-PSK", also named "WPA-shared key" requires users to select the advanced encryption methods, i.e. TKIP and enter a set of shared key.

TKIP – TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.

WPA Pre-Shared Key – Enter 8 to 63 digits of ASCII format to be the key for the authentication within the network.

When you finish configuring the wireless security, click "Save & Next" to confirm the configuration.

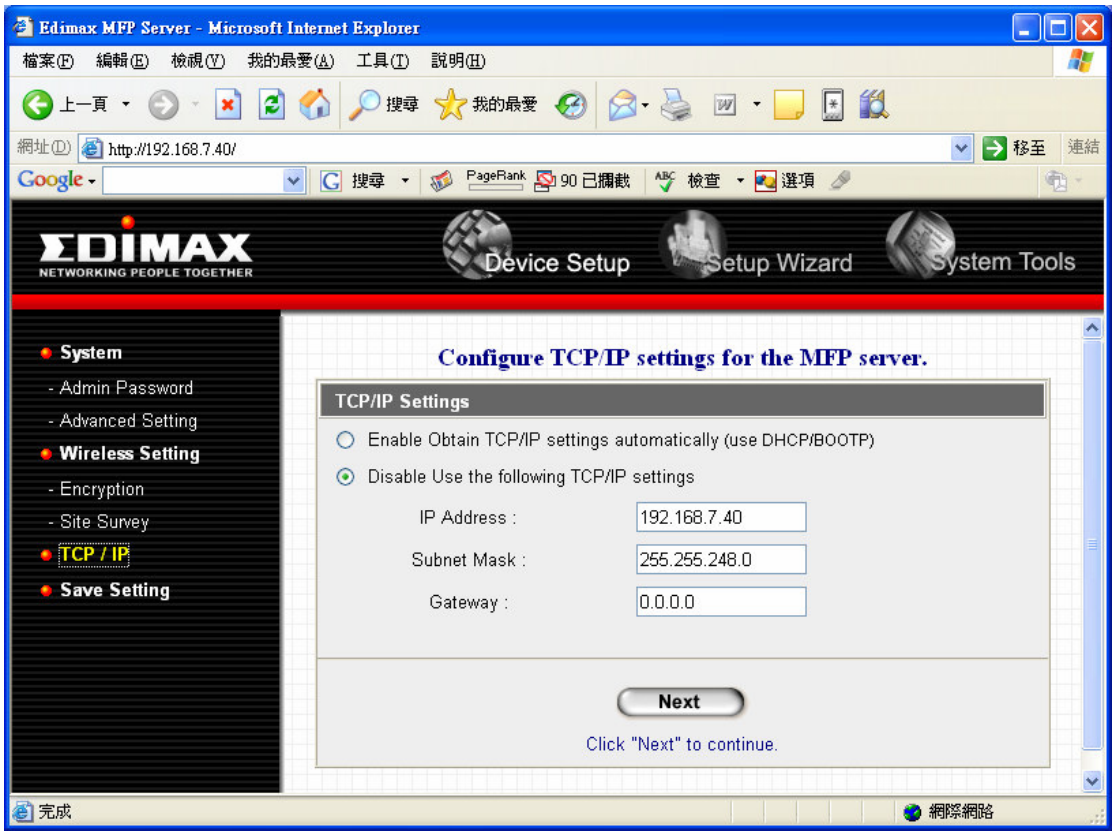
7.4.2.3 Site Survey



You can use this “Site Survey” function to search for available access points in you location. In the list is the information of all available access points or wireless stations, includes SSID, BSSID, Channel, Type, Encryption and Signal Strength. You can select one wireless device in the list for this MFP Server to associate with or you have to use General Setting to manually setup the wireless parameters.

There is “WLAN Function” setting for you to setup Auto/Disable/Enable wireless function of the MFP Server here. Please refer to section 7.4.2.1 to know more about the setting.

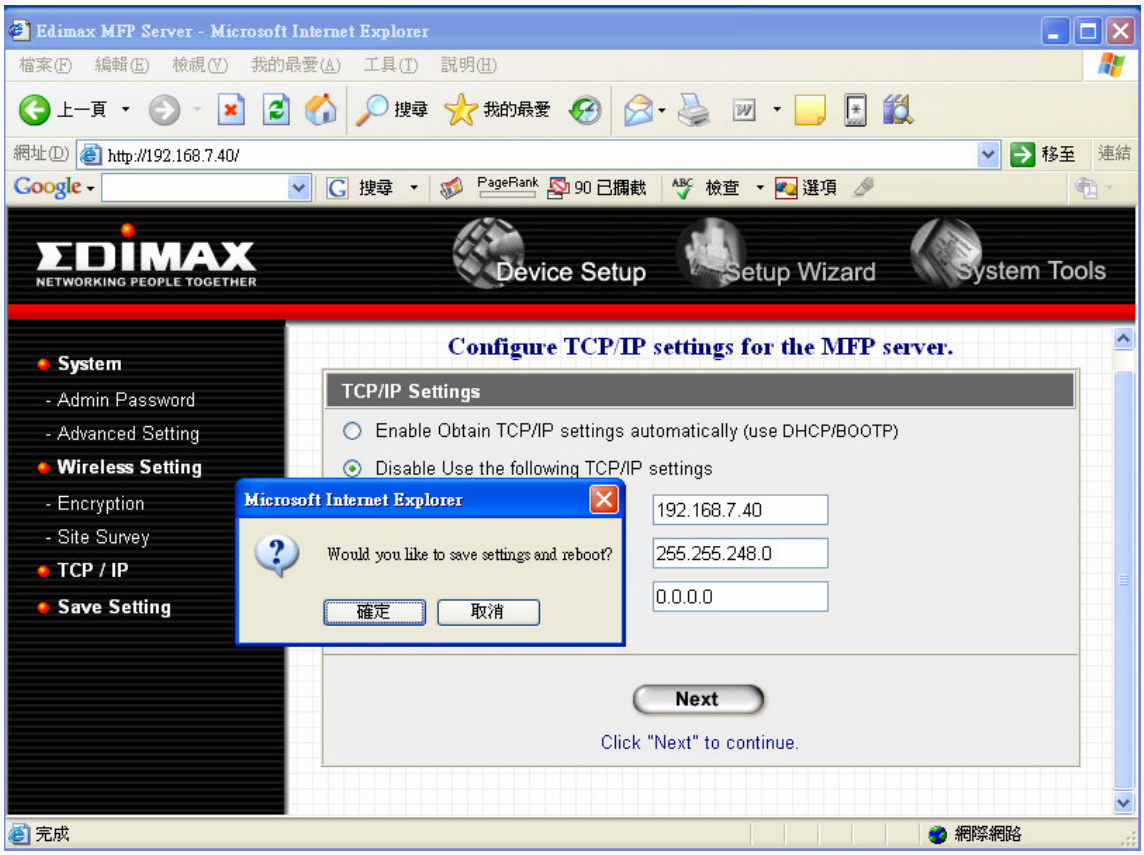
7.4.3 TCP/IP



You can configure the MFP Server to automatically get IP from DHCP server or manually specify static IP. The MFP Server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

If you need the MFP Server to automatically get an IP from DHCP server, select “Enable Obtain TCP/IP Settings Automatically (Use DHCP/ BOOTP)”. You also can select “Disable Use the following TCP/IP Settings” to manually assign “IP Address”, “Subnet Mask” and “Gateway” for the MFP Server.

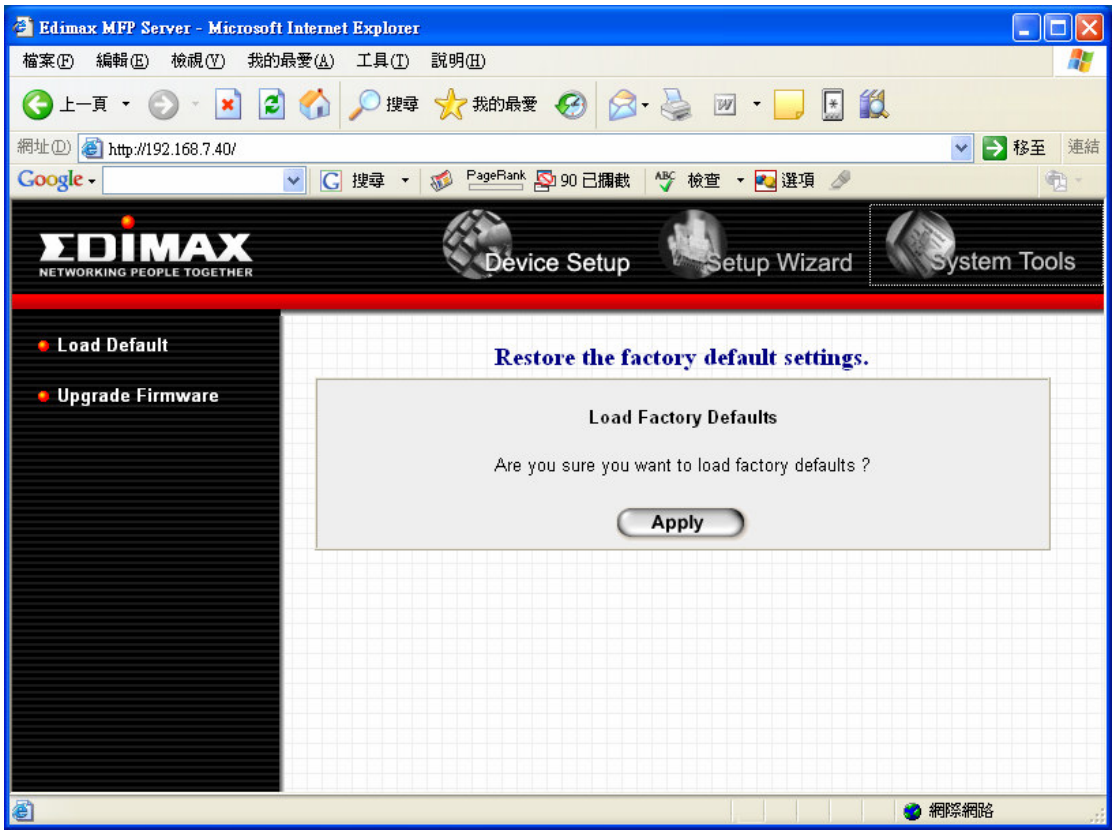
7.4.4 Save Settings



You can click the “Save Settings” to save the settings and restart the system.

7.5 System Tools

7.5.1 Load Default



You can use this page to restore the factory default settings. All of your previous setup will be cleared.

7.5.2 Upgrade Firmware from Browser

Edimax MFP Server - Microsoft Internet Explorer
http://192.168.7.40/
EDIMAX
NETWORKING PEOPLE TOGETHER
Device Setup
Setup Wizard
System Tools
Load Default
Upgrade Firmware
Upgrade the firmware of the MFP server.
Firmware Upgrade
Select a File :
瀏覽...
Note: Please make sure the firmware are correct before you proceed.If you do not know which firmware file you should use, please contact your local dealer for technical support.

You can upgrade new firmware for this MFP Server in this page. Click “Browse” to select the new firmware in your storage and then click “OK”, the firmware will be updated in several minutes.

Be aware that if you have started upgrading firmware, you have to follow all the upgrading steps or the MFP Server can’t turn back to normal configuration.

8. LPR Printing

LPR Printing (Line Printer Remote technology) allows users to connect to MFPs or printers via TCP/IP for printing sharing. The computer with Windows 98SE/Me/NT/2000/XP/2003 operating system can use the protocol to share printing in the network. MFP Server can support LPR printing by default.

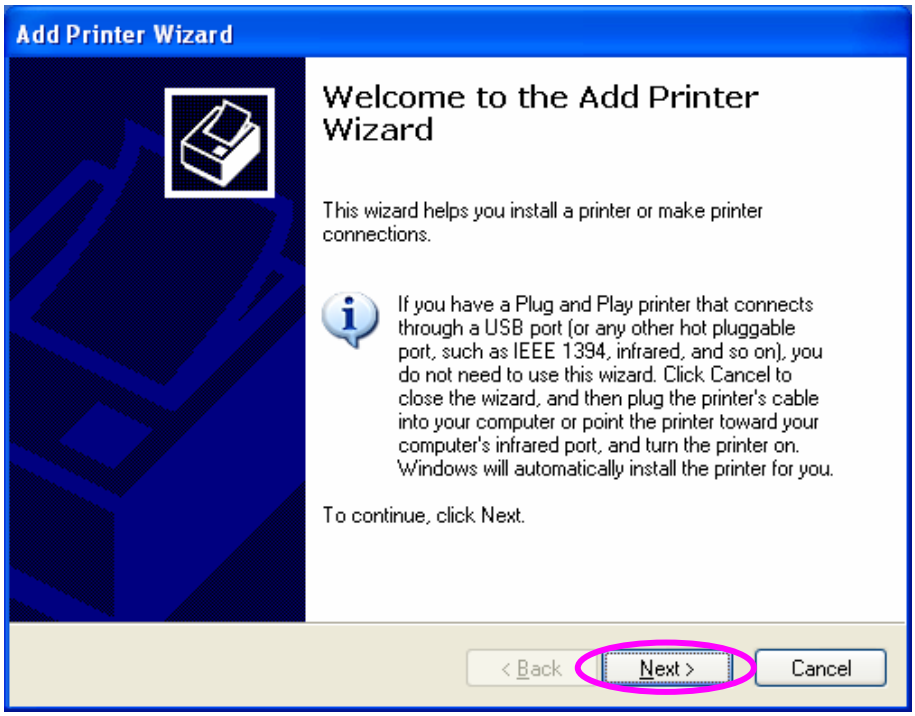
If you install the MFP Server in Windows 98SE/Me/NT, the MFP Server provides a tool “Network Port Setup” that help to add the LPR protocol to users’ computer easily. Please refer to Chapter 10.

To configure the LPR setting in Windows 2000/XP/2003, please follow the steps below.

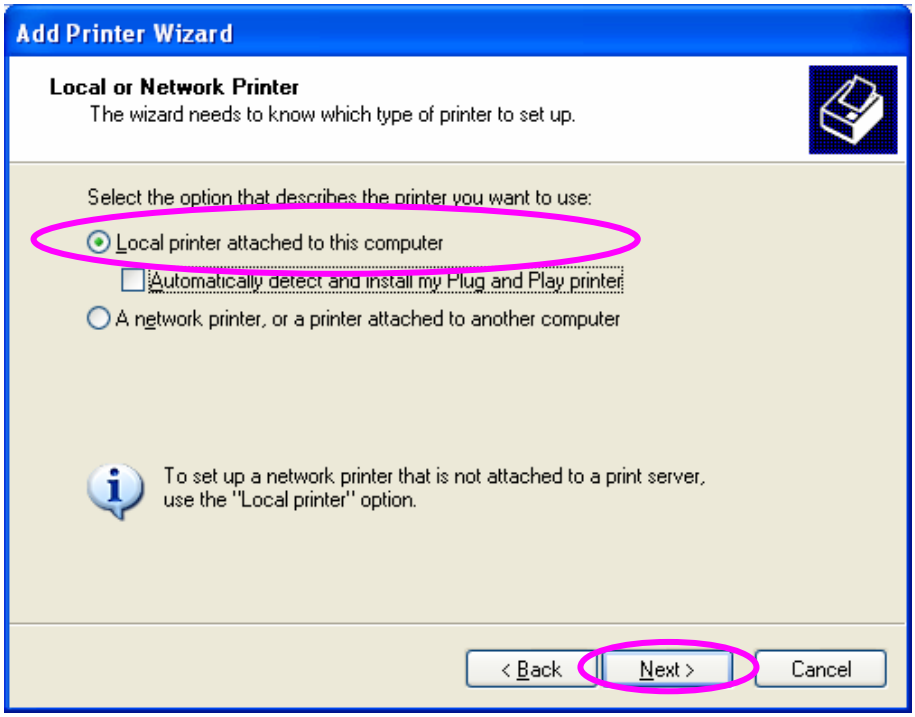
1. Click “Start”, choose “Settings” and select “Printers and Faxes”.

2. Click “Add a Printer”.

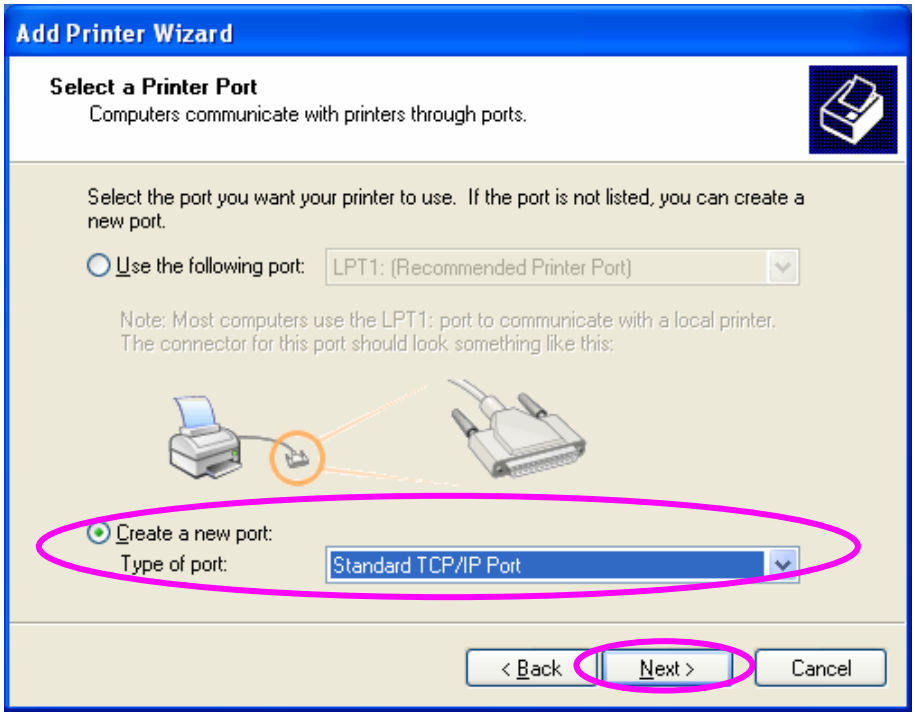
3. The “Add Printer Wizard” is displayed. Click “Next”.


Add Printer Wizard
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel

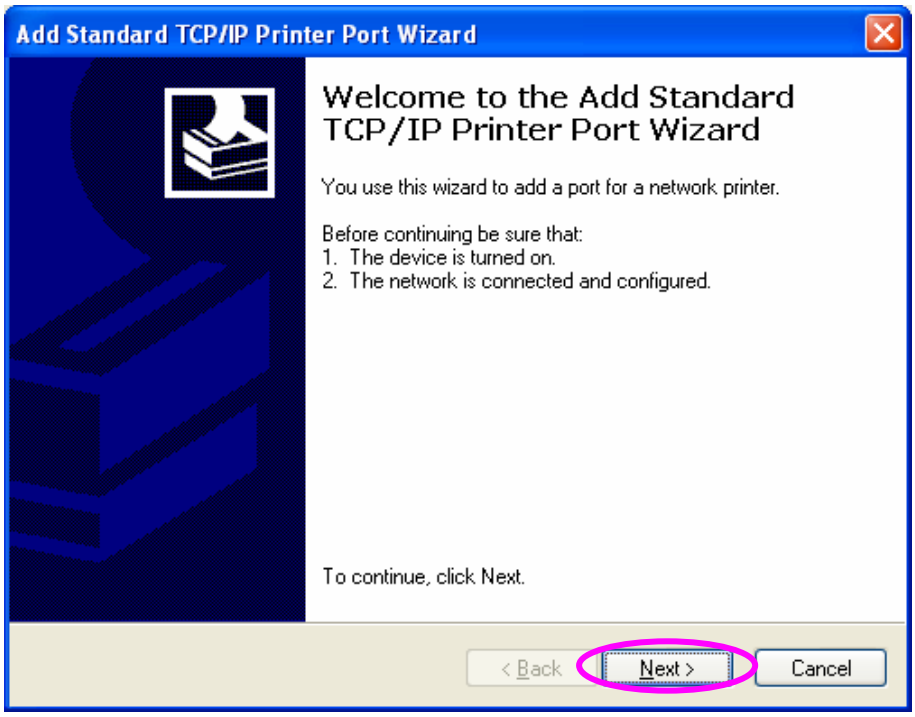
4. Select “Local Printer attached to this computer” and click “Next”.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

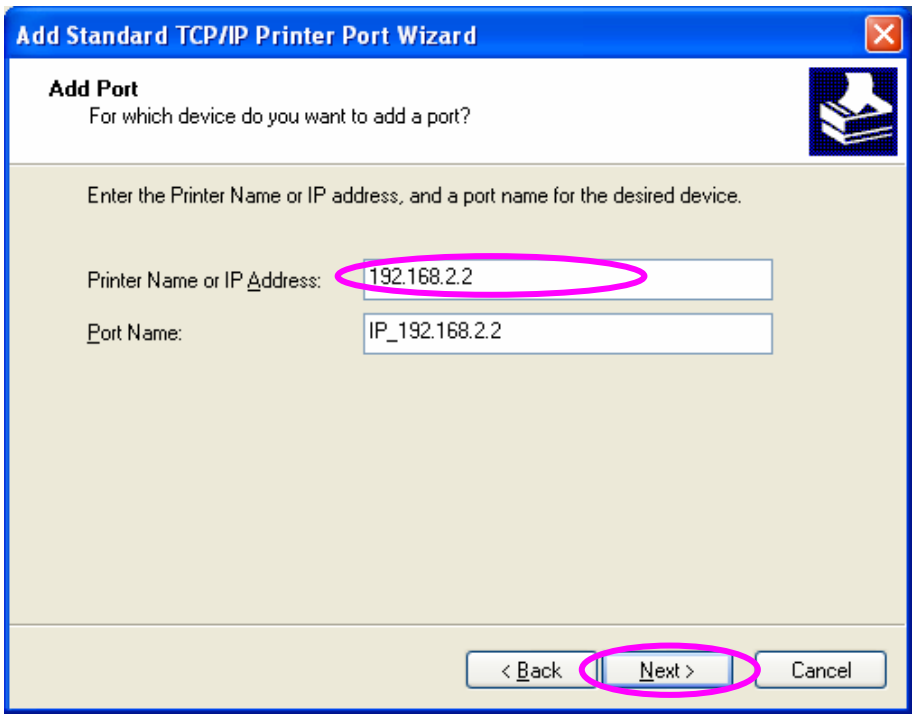
5. Choose “Create a new port” and “Standard TCP/IP Port”. Click “Next”.


Add Printer Wizard
Select a Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
LPT1: (Recommended Printer Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port:
Type of port:
Standard TCP/IP Port
< Back
Next >
Cancel

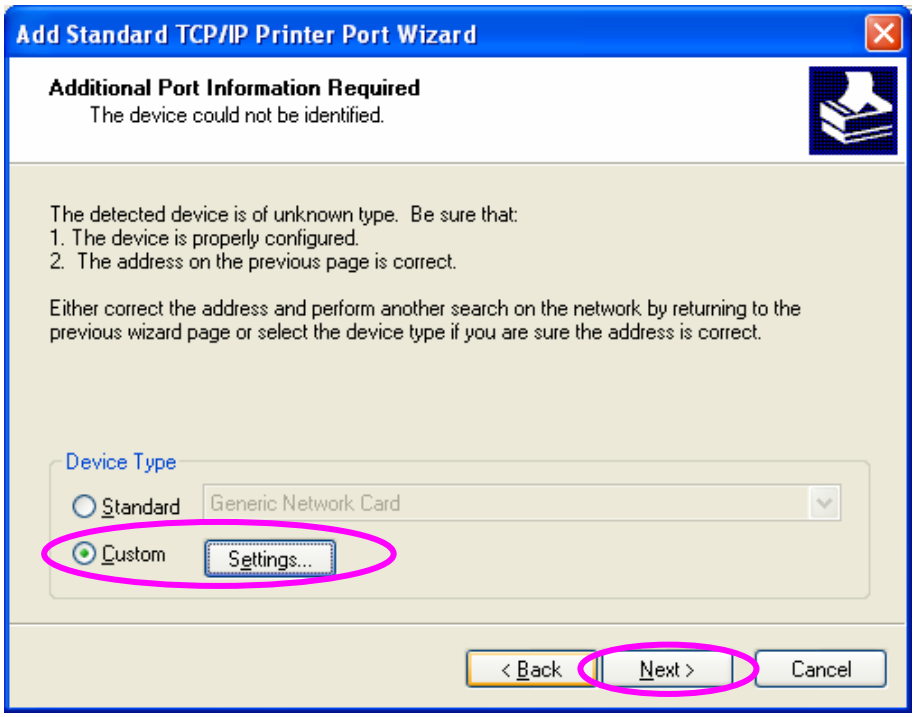
6. Please make sure that the MFP Server and the MFP or Printer have turned on and connected to the network correctly before you continue. Click “Next”.


Add Standard TCP/IP Printer Port Wizard
Welcome to the Add Standard TCP/IP Printer Port Wizard
You use this wizard to add a port for a network printer.
Before continuing be sure that:
1. The device is turned on.
2. The network is connected and configured.
To continue, click Next.
< Back
Next >
Cancel

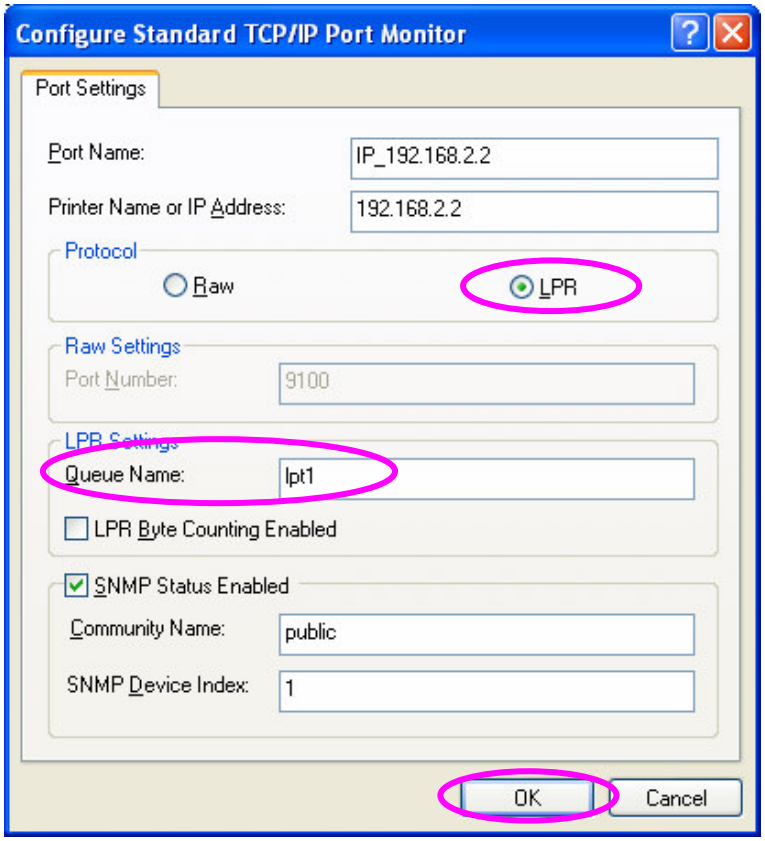
7. Enter the IP Address of the MFP Server in the “Printer Name or IP Address”. Click “Next”.


Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
192.168.2.2
Port Name:
IP_192.168.2.2
< Back
Next >
Cancel

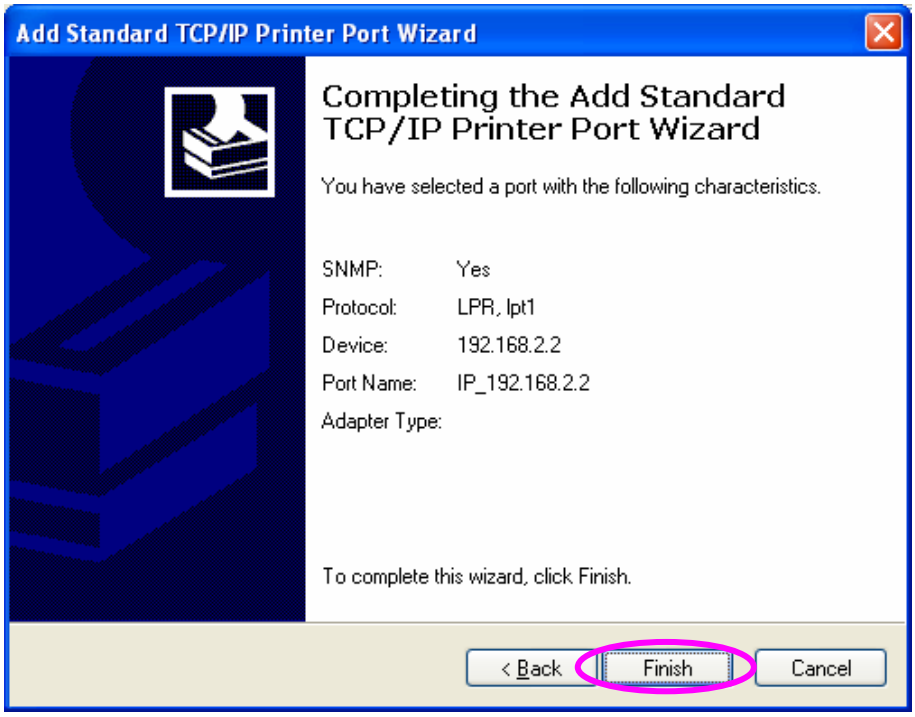
8. Select “Custom” and click “Settings”. When you have finished the settings at step 9, click “Next” to continue.


Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required
The device could not be identified.
The detected device is of unknown type. Be sure that:
1. The device is properly configured.
2. The address on the previous page is correct.
Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type
Standard
Generic Network Card
Custom
Settings...
< Back
Next >
Cancel

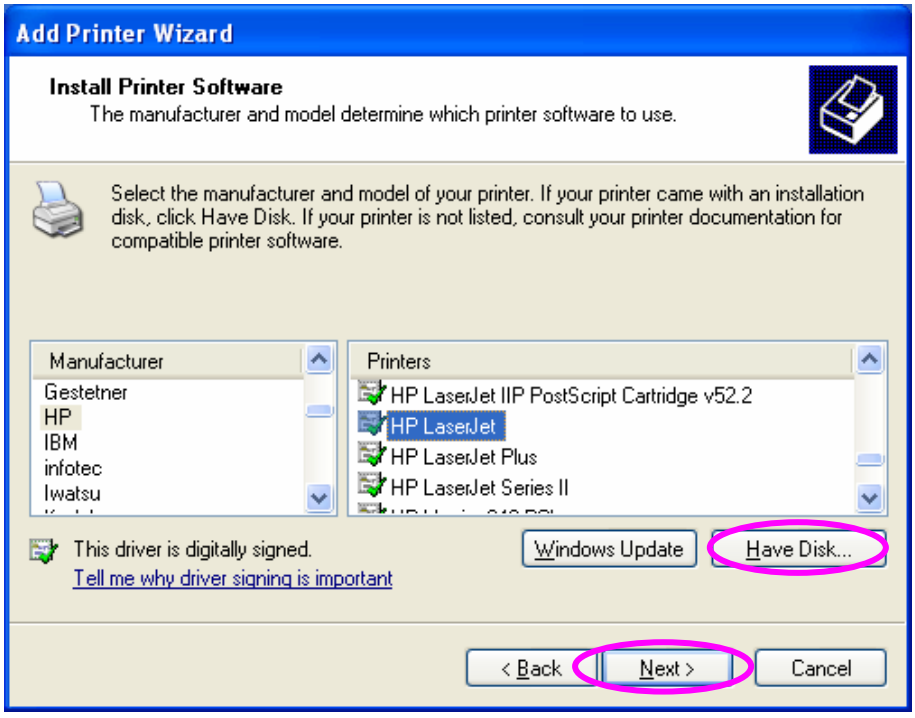
9. Select “LPR” and enter “lpt1” in the “Queue Name”, click “OK”. By default the queue name of the MFP Server is “lpt1”.



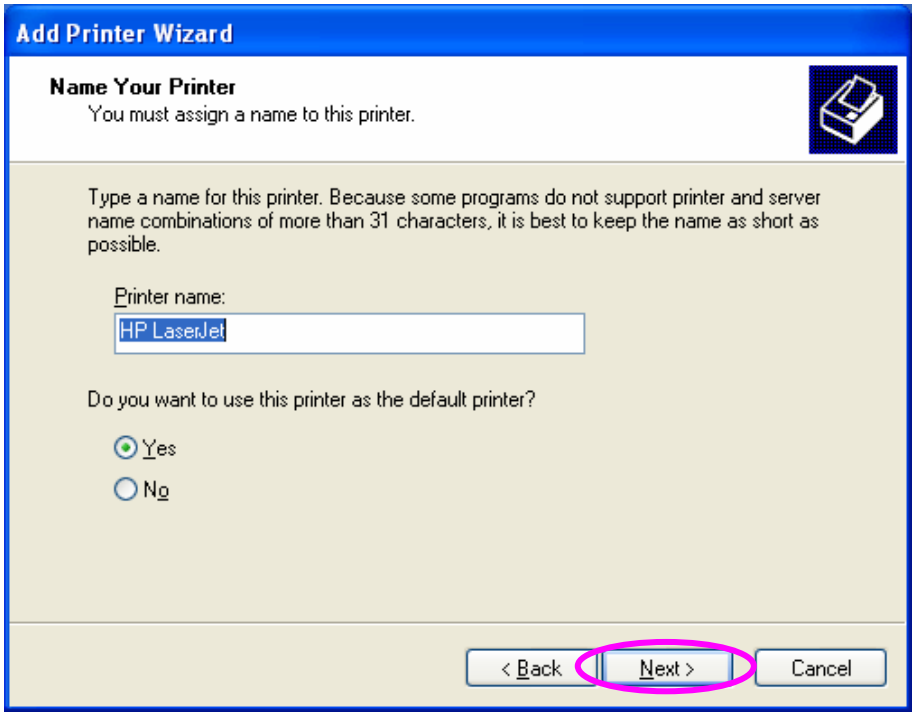
10. Click “Finish”.



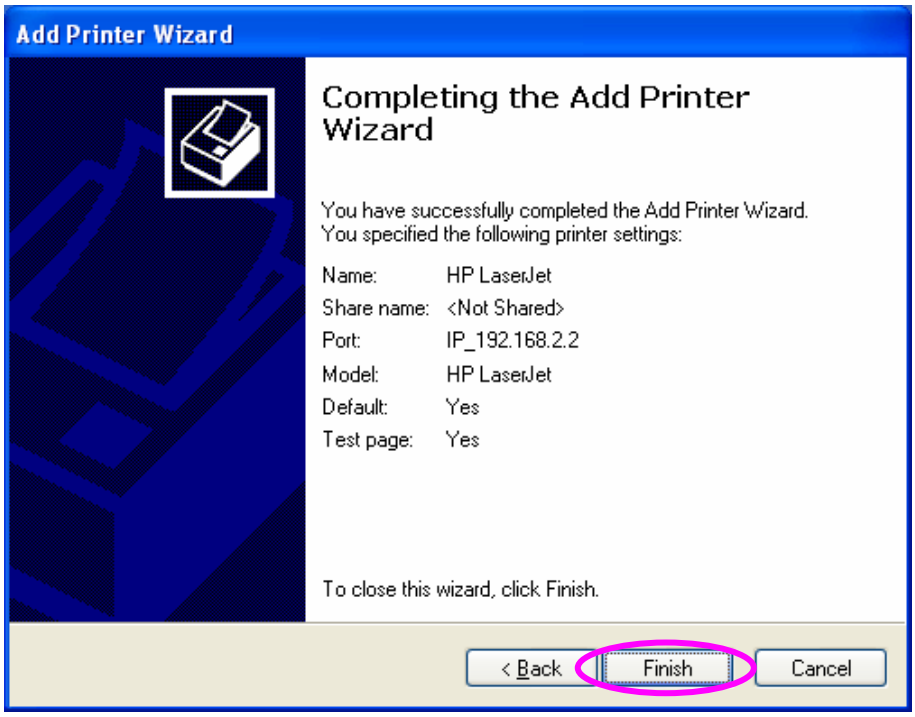
11. Select a suitable printer manufacturer and the printer model and click “Next”. If your printer is not in the list, click “Have Disk…” to install the driver of the printer. After installation, the printer model will be added to the list.


Add Printer Wizard
Install Printer Software
The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer
Gestetner
HP
IBM
infotec
Iwatsu
Printers
HP LaserJet IIP PostScript Cartridge v52.2
HP LaserJet
HP LaserJet Plus
HP LaserJet Series II
This driver is digitally signed.
Tell me why driver signing is important
Windows Update
Have Disk...
< Back
Next >
Cancel

12. Choose to set the print whether as a default printer or not. Click “Next”.


Add Printer Wizard
Name Your Printer
You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name:
HP LaserJet
Do you want to use this printer as the default printer?
Yes
No
< Back
Next >
Cancel

13. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click “Finish”.



9. IPP Printing

9.1 Introduction

IPP (Internet Printing Protocol) Printing provides a convenient way of remote printing service by TCP/IP. The MFP Server can support IPP printing in Windows 2000/XP/2003 by default. By using the IPP printing, you can share the printer to all the PC's that can access the MFP Server by IP. You can even share your MFP or printer to Internet users.

9.2 System Setup

9.2.1 MFP Server Side

It is needless to do any setting on the MFP Server side. Make sure the MFP Server has correct IP settings. If you want to share the printers to Internet users, you have to set a real IP to the MFP Server. You also have to make sure that any gateway, router or firewall does not block IPP protocol if you have these gateway devices installed in your network.

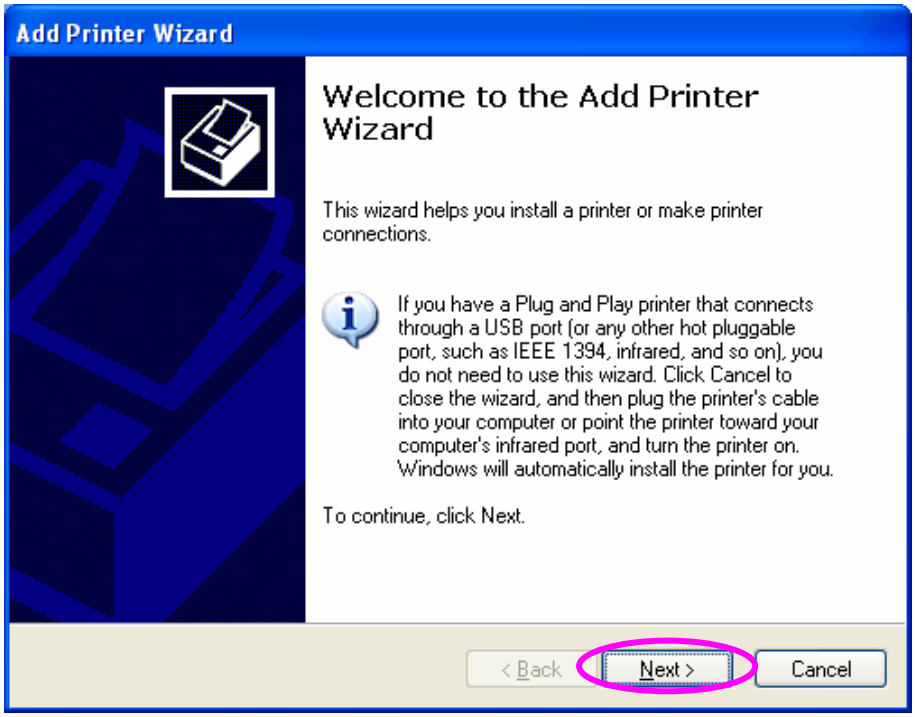
9.2.2 Client Side

You only need to perform Window's standard ***Add New Printer*** procedure.

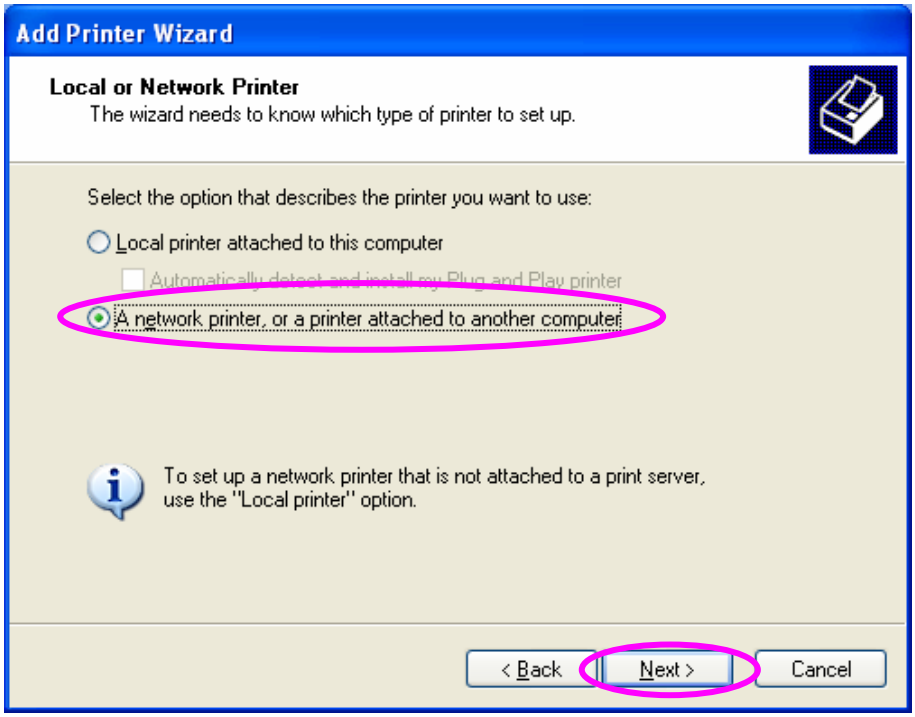
1. Click "Start", choose "Settings" and select "Printers and Faxes".

2. Click "Add a Printer".

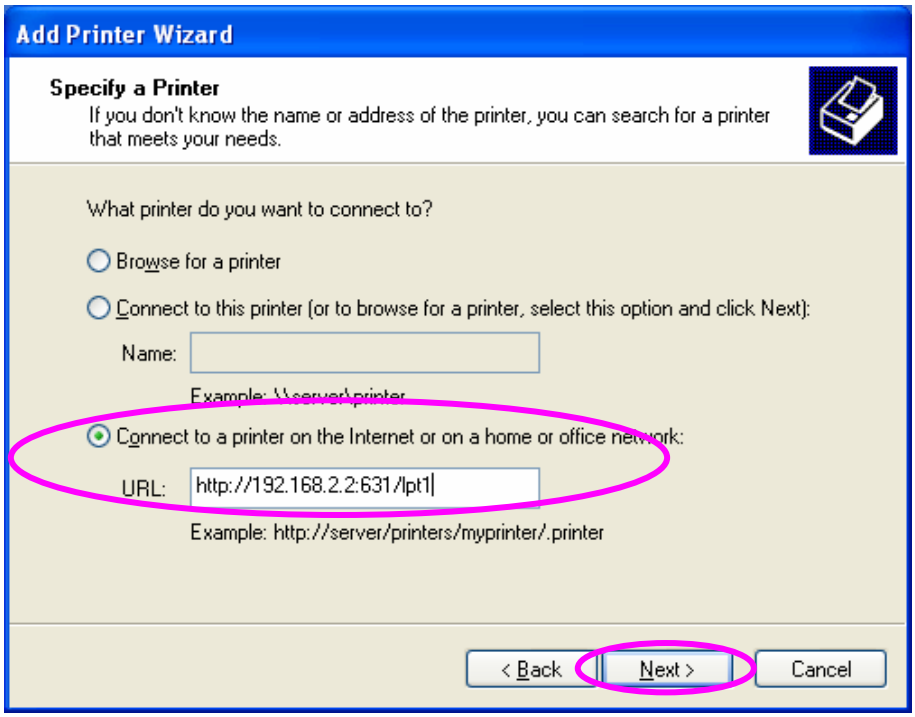
3. The “Add Printer Wizard” is displayed. Click “Next”.


Add Printer Wizard
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel

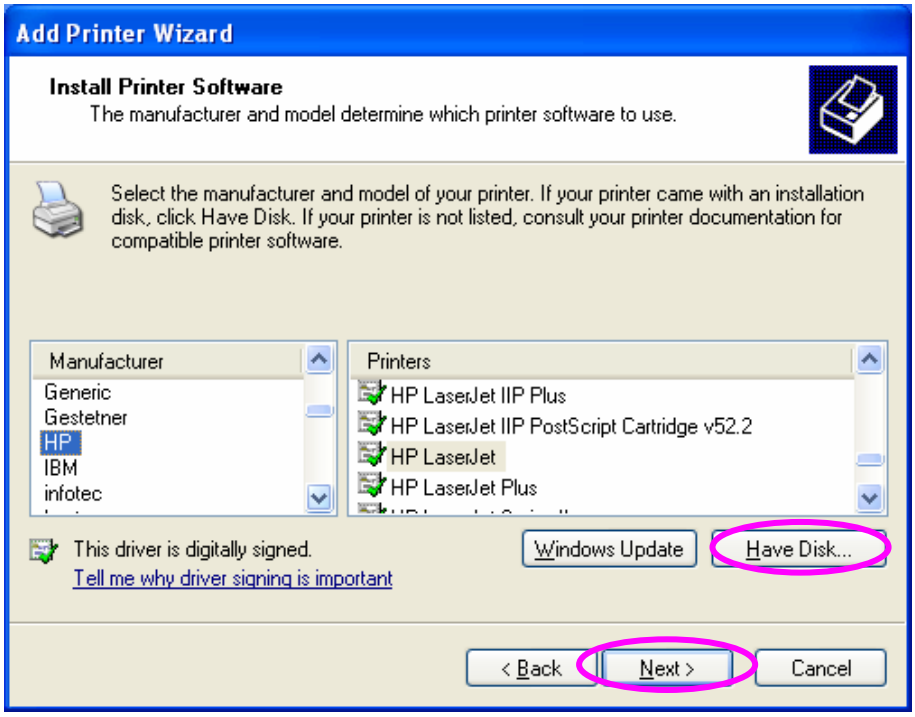
4. Select “A network printer, or a printer attached to another computer”. Click “Next”.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

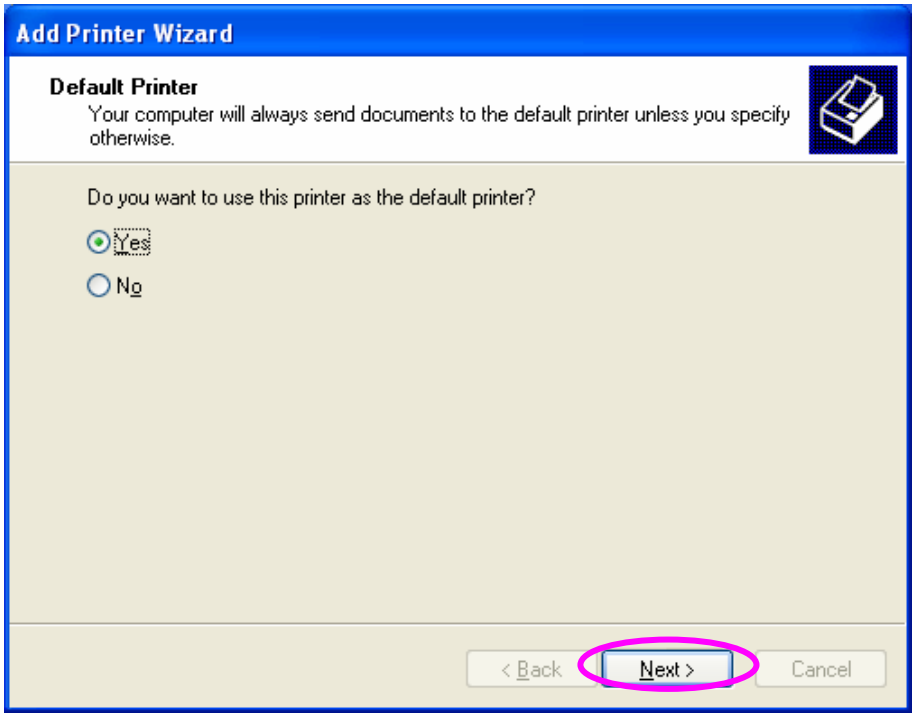
5. Select “Connect to a printer on the Internet or on a home or office network” and enter the URL of MFP Server. The URL format is “http://IP:631/Port Name”. The IP should be the MFP Server’s IP. The number 631 is IPP standard port number. Port Name is the port name of MFP Server that your printer is connected to. The default port name is “lpt1”. One example of the URL is http://192.168.2.2:631/lpt1. After entering the URL of MFP Server, click “Next”.


Add Printer Wizard
Specify a Printer
If you don't know the name or address of the printer, you can search for a printer that meets your needs.
What printer do you want to connect to?
Browse for a printer
Connect to this printer (or to browse for a printer, select this option and click Next):
Name:
Example: \\server\printer
Connect to a printer on the Internet or on a home or office network:
URL:
http://192.168.2.2:631/lpt1
Example: http://server/printers/myprinter/.printer
< Back
Next >
Cancel

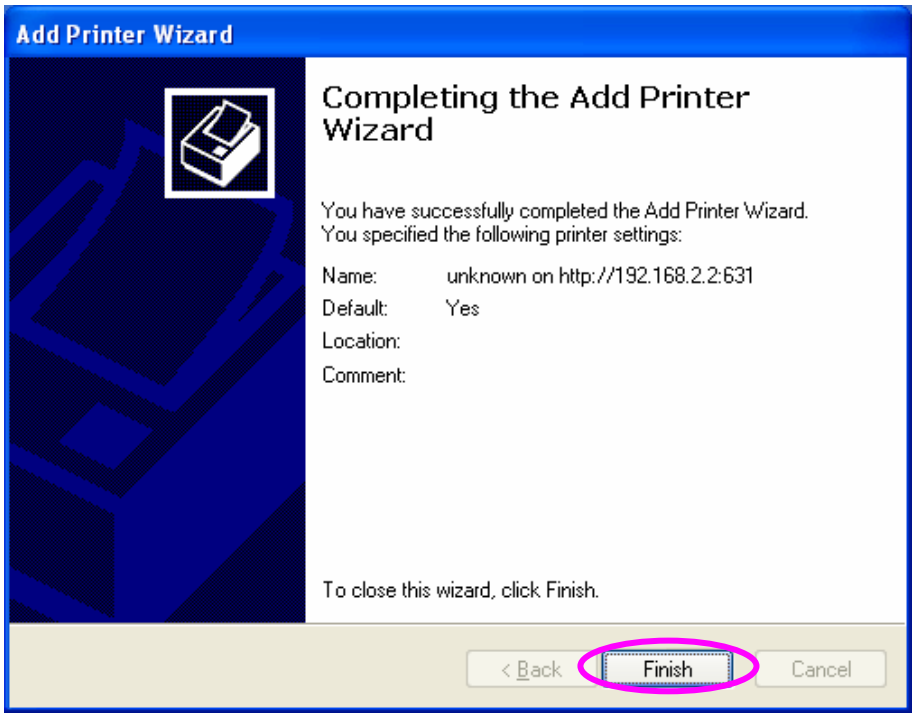
6. Select a suitable printer manufacturer and the printer model and click “Next”. If your printer is not in the list, click “Have Disk…” to install the driver of the printer. After installation, the printer model will be added to the list.


Add Printer Wizard
Install Printer Software
The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer
Generic
Gestetner
HP
IBM
infotec
Printers
HP LaserJet IIP Plus
HP LaserJet IIP PostScript Cartridge v52.2
HP LaserJet
HP LaserJet Plus
This driver is digitally signed.
Tell me why driver signing is important
Windows Update
Have Disk...
< Back
Next >
Cancel

7. Choose to set the print whether as a default printer or not. Click “Next”.


Add Printer Wizard
Default Printer
Your computer will always send documents to the default printer unless you specify otherwise.
Do you want to use this printer as the default printer?
Yes
No
< Back
Next >
Cancel

8. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click “Finish”.



10. MFP Server Installation in Windows 98SE/Me/NT

This MFP Server supports TCP/IP network protocol and IPP and LPR printing protocols, it can be a print server when you operate it in Windows 98SE/Me/NT/2000/XP/2003, Unix/Linux and MAC OS. The IPP printing protocol can be used in Windows 2000/XP/2003. The LPR printing protocol can be used in Windows 98SE/Me/NT/2000/XP/2003, Unix/Linux and MAC OS. For the LPR and IPP settings in Windows 2000/XP/2003, please refer to Chapter 8 and 9.

This chapter will introduce you how to install the MFP Server to be print server in Windows 98SE/Me/NT.

Before you start, you should have:

- One computer with Windows 98SE/Me/NT
- The TCP/IP network protocol has been installed in the PC

10.1 Software Installation Procedure

The following are the installation steps in Windows 98SE. To install MFP Server in Windows Me/NT, the procedures are similar.

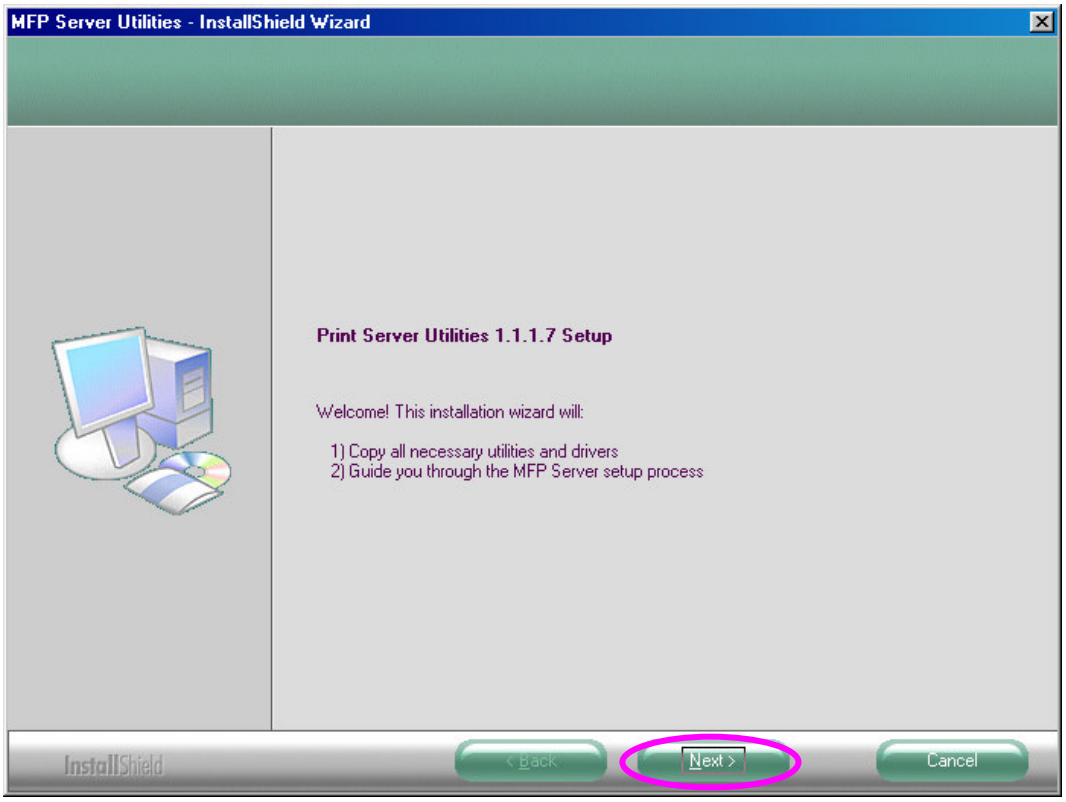
1. Insert the CD shipped along with the MFP server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.

2. The following screen will be displayed. Click "MFP Utility" then "English Version".

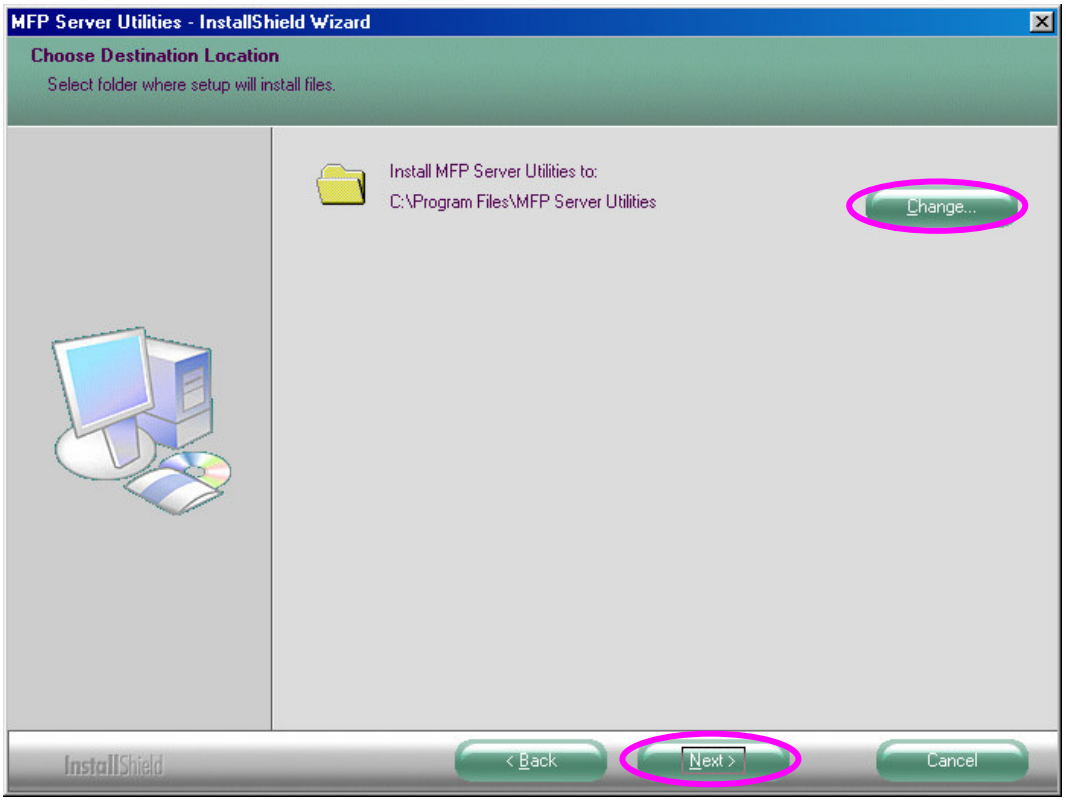
3. The message is prompted to remind you that the MFP Server will only support print sharing function since the operation system of your computer is Windows 98SE/Me/NT. Click "Ok".

MFP Server Utilities - InstallShield Wizard
This MFP Server only allows you to share the printing function from MFP since your PC's operating system is Windows 98SE/ME/NT. It will install the Print Server Utilities, now.
OK

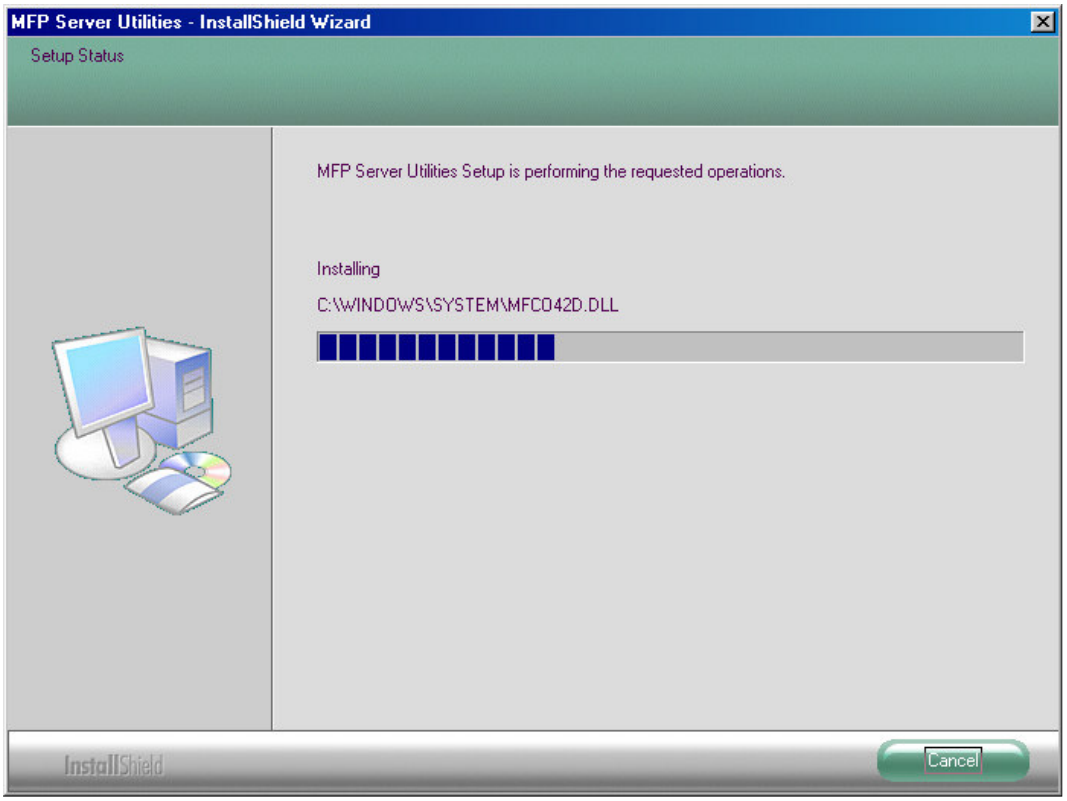
4. The “MFP Server Utilities - InstallShield Wizard ” will be displayed. Click “Next”.


MFP Server Utilities - InstallShield Wizard
Print Server Utilities 1.1.1.7 Setup
Welcome! This installation wizard will:
1) Copy all necessary utilities and drivers
2) Guide you through the MFP Server setup process
InstallShield
< Back
Next >
Cancel

5. Click “Next” to install the MFP Server utilities in the default folder or click “Change” to specify the destination folder where you would like to install the MFP Server utilities.

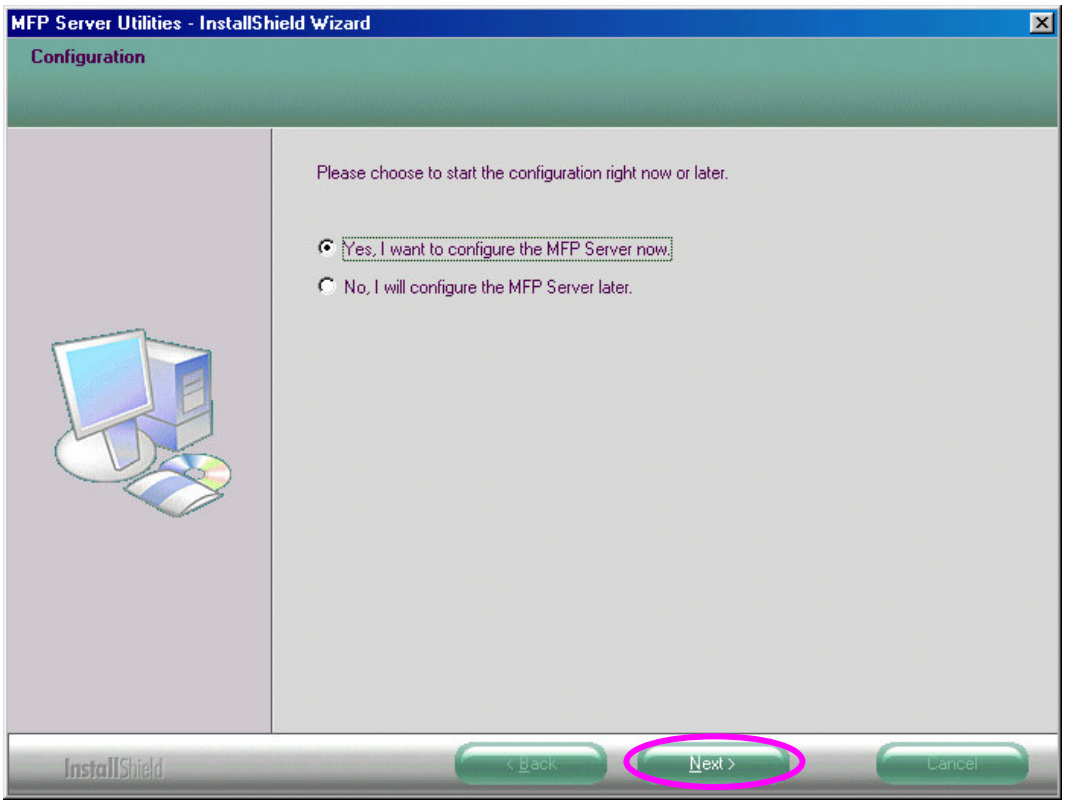


6. The MFP Server Utilities are being installed.

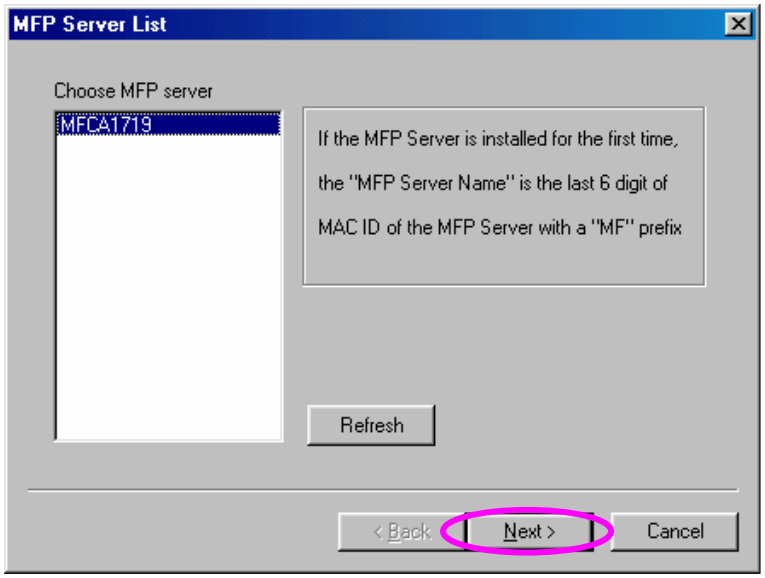


7. The “Configuration” screen is displayed. If you want to configure the MFP Server, please click “”Next” directly. Or you can select “No, I will configure the MFP Server later” and click “Next” to complete the installation.

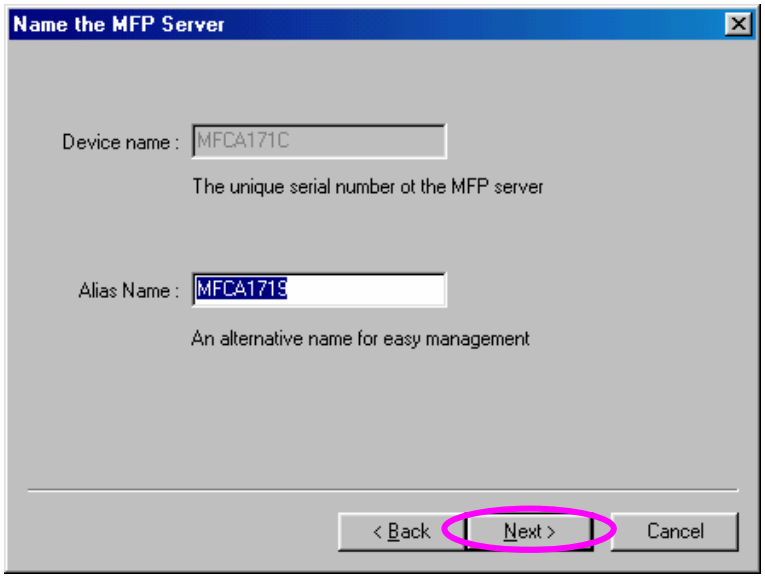
   The following steps are for the MFP Server Configuration.


MFP Server Utilities - InstallShield Wizard
Configuration
Please choose to start the configuration right now or later.
Yes, I want to configure the MFP Server now.
No, I will configure the MFP Server later.
InstallShield
< Back
Next >
Cancel

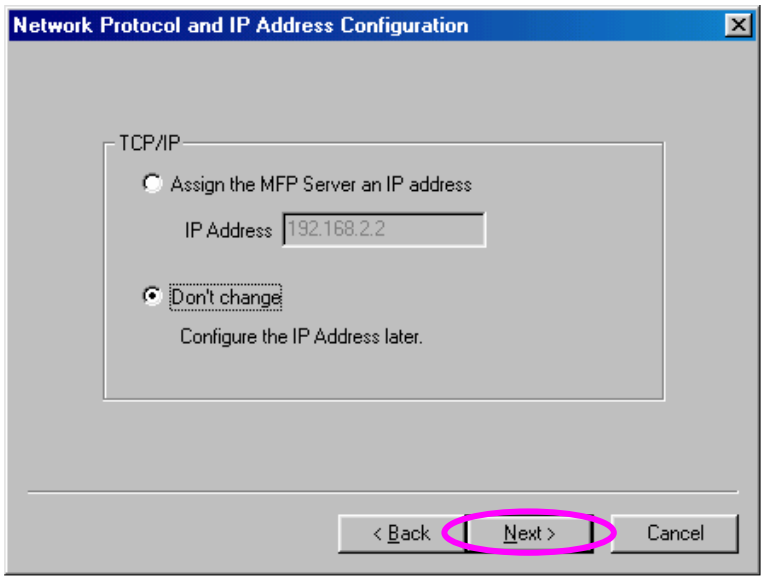
8. The MFP Server List will auto search the MFP Servers in the network. Select the MFP Server you wan to setup and click “Next” to continue.


MFP Server List
Choose MFP server
MFCA1719
If the MFP Server is installed for the first time, the "MFP Server Name" is the last 6 digit of MAC ID of the MFP Server with a "MF" prefix
Refresh
< Back
Next >
Cancel

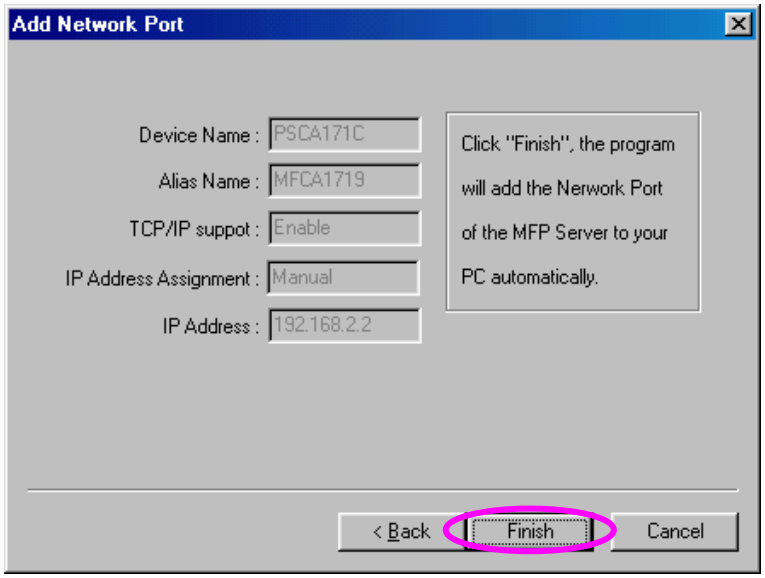
9. Set the “Alias Name” and the MFP Server here. Click on “Next”.



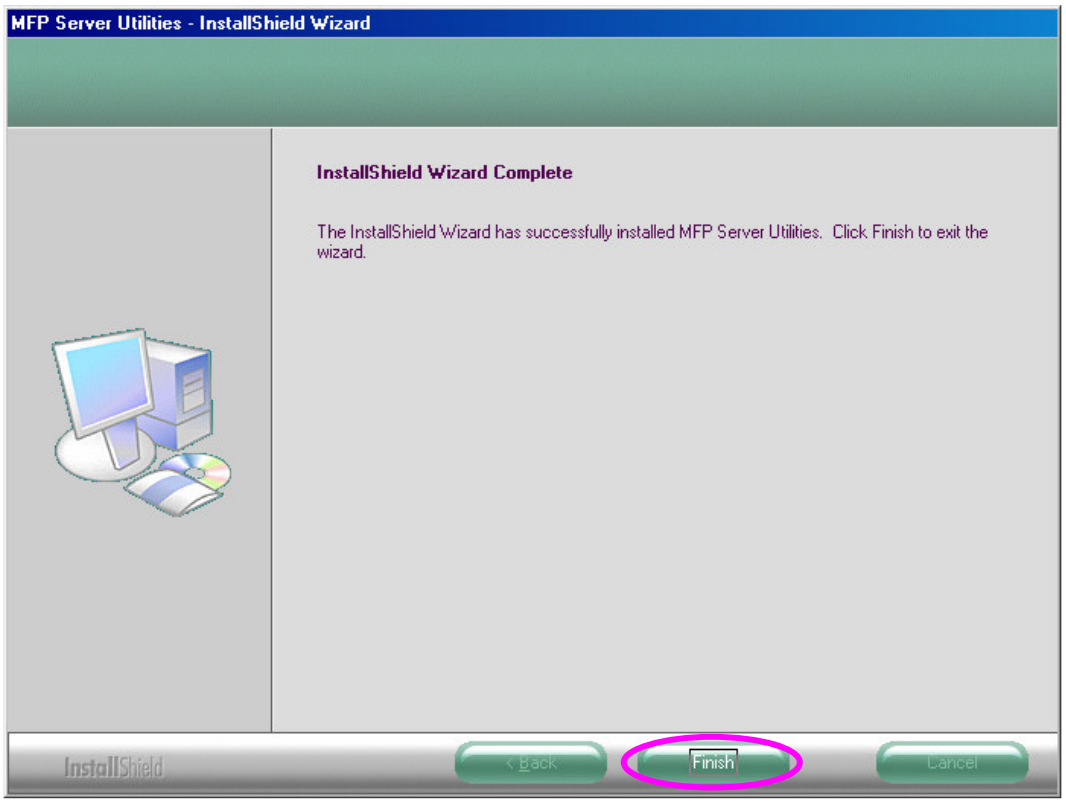
10. Setup the IP address of the MFP Server and click “Next”.



11. The settings are finished click “Finish” to apply new settings.



12. Click “Finish” to complete the installation.


MFP Server Utilities - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed MFP Server Utilities. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

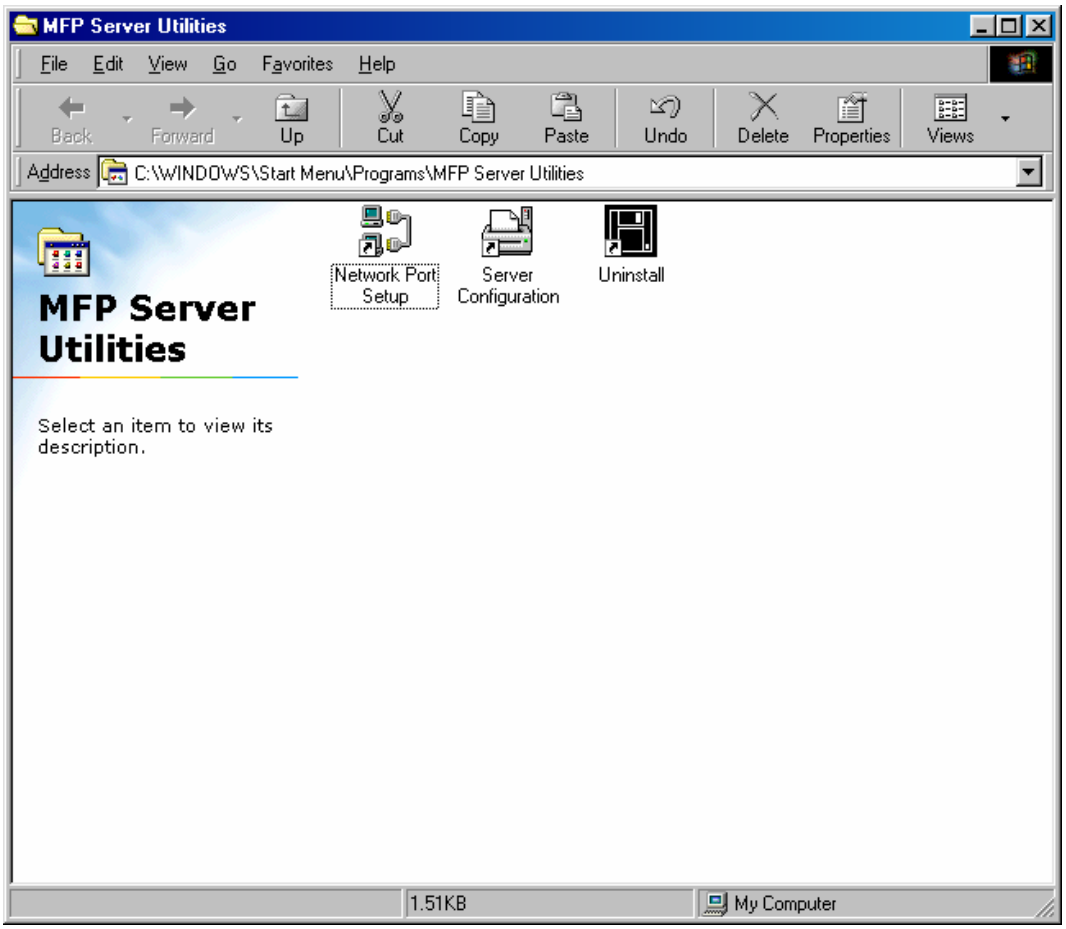
10.2 Server Utilities

After the installation is completed, there will be three utilities in MFP Server's Program folder.

Network Port Setup – Add the network ports of MFP Server within the network to your PC.

Server Configuration – Allows you to configure IP Address, network protocols and other advanced functions. Please refer to Chapter 6 for the detail instruction of the configuration.

Uninstall – Assistant for removing all installed software.



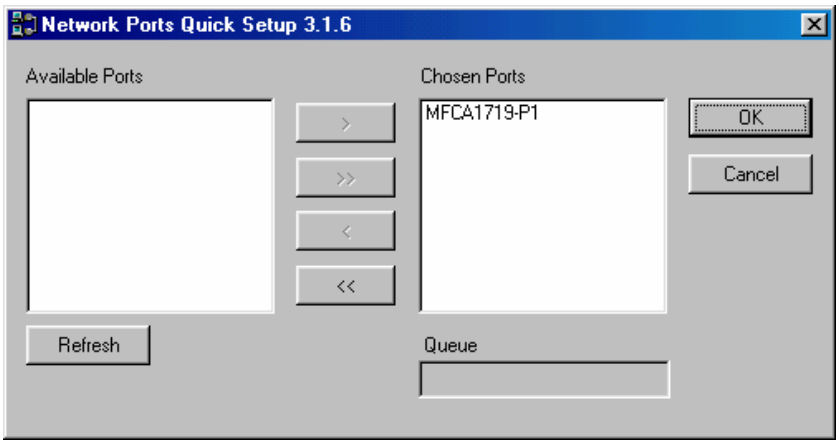
10.3 Network Port Setup

“Network Port Setup” Utility offers a very simple method to add or remove MFP Server’s printer port from the client’s computer.

During the MFP Server’s installation procedure, the system will automatically search for all MFP Servers on the network, and add the printer port of the MFP Server you have selected to user’s computer (see below).

If you have just installed another new MFP Server in the network, you must run this program first. This program will search for new MFP Servers and allow you to add the new network printer port into your computer conveniently. Perform the standard Add Printer procedure, then you can print directly to the printer through the newly installed MFP Server.

Note: *Please be aware that Network Port Setup Utility can only detect and configure all MFP Servers within the same network; it cannot search and configure the MFP Servers on other subnets across network segments.*



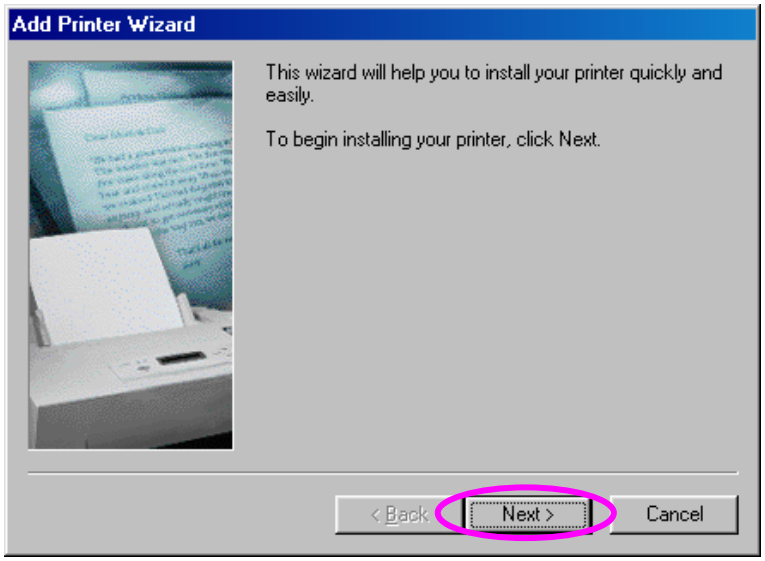
10.4 Add Printer

After adding a “Network Port” of the MFP Server to your computer, you can follow the procedure described below to add printer to the Windows. Note that following “Add Printer” steps are running in Windows 98SE, the steps in other Operating Systems are similar.

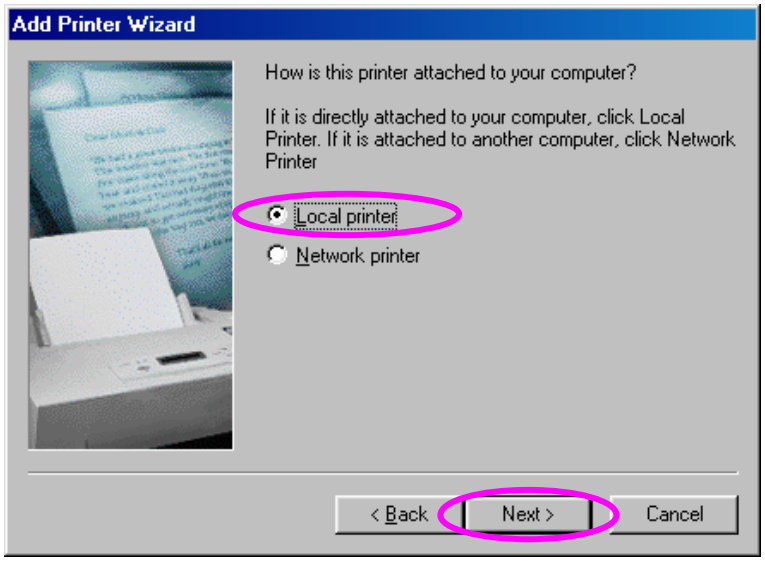
1. Click “Start”, choose “Settings” and select “Printers”.

2. Click “Add Printer”.

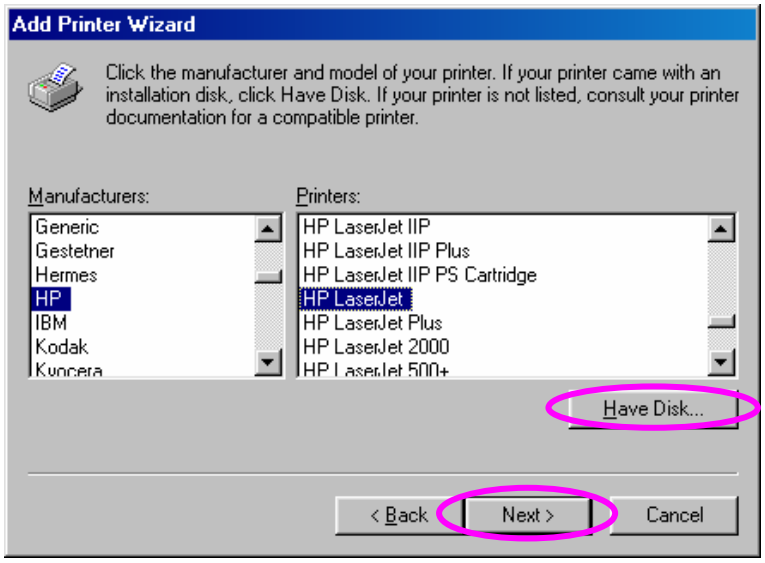
3. The “Add Printer Wizard” is displayed. Click “Next”.


Add Printer Wizard
This wizard will help you to install your printer quickly and easily.
To begin installing your printer, click Next.
< Back
Next >
Cancel

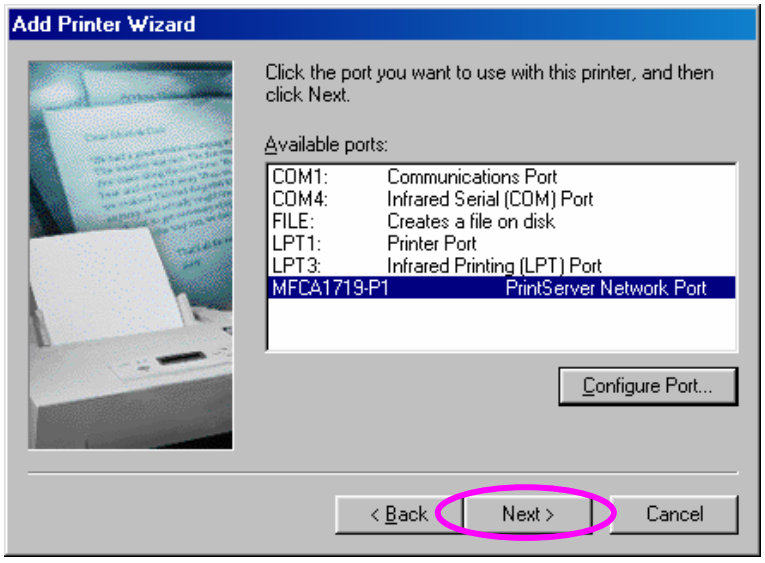
4. Select “Local printer” and click “Next”.


Add Printer Wizard
How is this printer attached to your computer?
If it is directly attached to your computer, click Local Printer. If it is attached to another computer, click Network Printer
Local printer
Network printer
< Back
Next >
Cancel

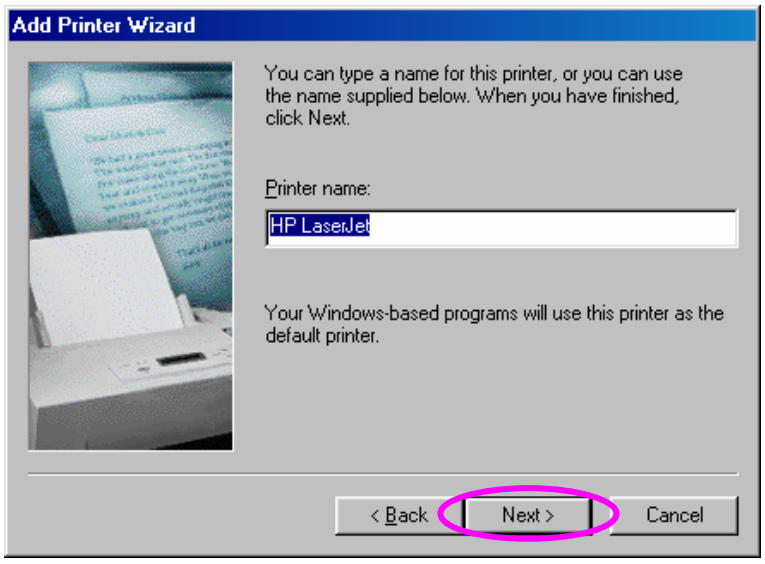
5. Select a suitable printer manufacturer and the printer model and click “Next”. If your printer is not in the list, click “Have Disk…” to install the driver of the printer. After installation, the printer model will be added to the list.



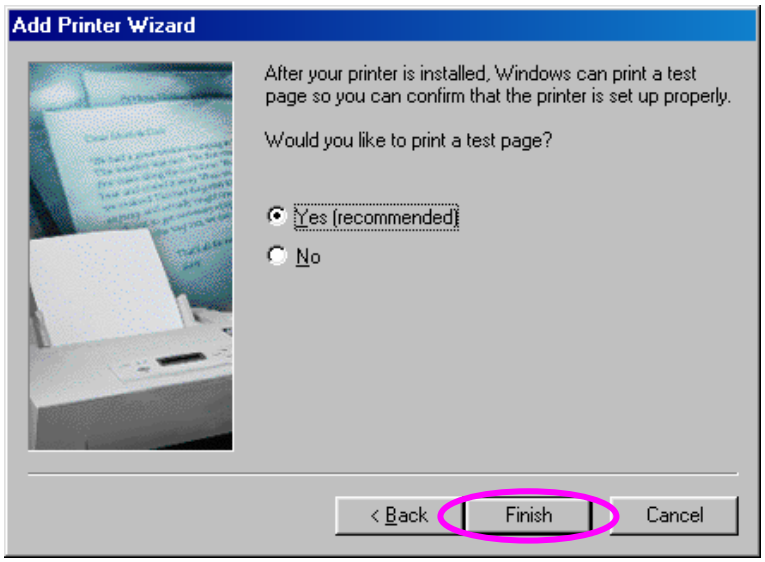
6. Choose the suitable “Print Server Network Port” and click “Next”.


Add Printer Wizard
Click the port you want to use with this printer, and then click Next.
Available ports:
COM1: Communications Port
COM4: Infrared Serial (COM) Port
FILE: Creates a file on disk
LPT1: Printer Port
LPT3: Infrared Printing (LPT) Port
MFCA1719-P1 PrintServer Network Port
Configure Port...
< Back
Next >
Cancel

7. Please enter the new name for the printer or click “Next” to keep the default printer name.


Add Printer Wizard
You can type a name for this printer, or you can use the name supplied below. When you have finished, click Next.
Printer name:
HP LaserJet
Your Windows-based programs will use this printer as the default printer.
< Back
Next >
Cancel

8. Choose to print the test page or not. It is recommended to print a test page. Click “Finish”.


Add Printer Wizard
After your printer is installed, Windows can print a test page so you can confirm that the printer is set up properly.
Would you like to print a test page?
Yes (recommended)
No
< Back
Finish
Cancel

9. The drivers of the printer will be installed. After complete the installation, the printer has been added to your computer.

Printers
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete Properties Views
Address Printers
Add Printer
HP LaserJet
Printers
Add Printer
The Add Printer wizard walks you step-by-step through installing a printer. Just follow the instructions on each screen.

11. UNIX System Network

11.1 Introduction

The MFP Server is available for TCP/IP printing by Unix LPD (Line Printer Daemon) protocol. The LPD protocol originated with Unix release is based on the BSD version of Unix and supported under most versions of Unix.

This chapter explains how to configure the MFP Server for TCP/IP operation, and how to modify configuration files on your Unix system to allow printing to the MFP Server. The configuration examples in this manual follow the syntax for BSD based Unix systems. Please refer to the related system documentation for the correct syntax of your systems.

To configure the MFP Server for LPD printing, perform the procedures below:

1. Enable MFP Server's TCP/IP Support.
2. Set up MFP Server's IP address.
3. Verify MFP Server's IP Address.
4. Configure remote LPD printing on the host.
5. Print a test page.

In the next sections, we will describe these five procedures step by step.

11.2 Enable MFP Server's TCP/IP Support

The default configuration of the MFP Server is with TCP/IP support enabled. Anyway, you can configure the MFP Server to enable TCP/IP support using the configuration program.

11.3 Setup MFP Server's IP Address

The MFP Server must have a unique IP address in order to be recognized by the network.

You can set up the IP address on the various Unix systems using any one of the following methods:

1. DHCP (Dynamic Host Configuration Protocol)
2. BOOTP (Bootstrap Protocol)

The MFP Server will use the last two methods to obtain its IP address automatically if its IP address is configured as Auto (0.0.0.0).

11.3.1 DHCP

There are many Unix systems that support DHCP protocol, and the procedures to configure the DHCP server database are different. Please refer to the manual of Unix for the way to use different DHCP Server. It is highly recommended that the DHCP server should be located on the same network as the MFP Server.

11.3.2 BOOTP

If you have the BOOTP daemon, bootpd, running on your UNIX system that is accessible by the MFP Server, you can use the BOOTP protocol to set up the IP address of the MFP Server. We recommend that the BOOTP server should be located on the same subnet as the MFP Server. If you use Network Information Services (NIS) in your system, you may need to rebuild the NIS map with the BOOTP services before doing the following BOOTP configuration. To rebuild the NIS map, please refer to your system documentation.

To configure the IP address data for the BOOTP server, you will need to log in the host of BOOTP server as the superuser (root). Perform the following steps to add address entries,

1. Optionally, assign a name corresponding to the MFP Server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

   203.66.191.12 pserver

2. Add an entry to the host's /etc/bootptab file, similar to the following:

   hostname:
   :ht=1:
   :ha=MFP_Server_ethernet_address:
   :ip=MFP_Server_ip_address:

   Lines should be indented with tabs.

   Where hostname is the device name of a MFP Server, the ht=1 tag specifies the hardware type is Ethernet, the ha= tag specifies the Ethernet address of a MFP Server, which is the Node ID located on the MFP Server. The ha tag must be preceded by the ht tag. The ip= tag should correspond to the IP address you want to assign to the MFP Server.
   For example, a MFP Server with the following configuration:
   Node ID: 0000B4010101 (this implies Ethernet address is 0000B4010101),

IP address: 203.66.191.12

The entry for this MFP Server in the /etc/bootptab file should be:

```
MF010101:\
    :ht=1:\
    :ha=0000B4010101:\
    :ip=203.66.191.12:
```

11.4 Verify MFP Server's IP Address

To verify your MFP Server is responding to the newly assigned IP address using a PING command:

ping ip-address

11.5 Configure Remote LPD Printing on the Host

The procedure you use to configure your Unix host(s) to allow printing to your network remote MFP Server varies between different varieties of Unix. The procedure below can be used for Unix variants that are related to BSD Unix, such as SunOS or Linux. For other versions of Unix, consult your system documentation, keeping in mind that:

1. The MFP Server should be treated as a BSD networked MFP Server host.
2. The host name should be the name (or IP address) that you have assigned to the MFP Server.
3. The printer name (or queue name) on the remote host should be lpt1, lpt2 or lpt3, the name of the printer port on the MFP Server.

You will need to perform the tasks below, logged in as the superuser (root). To configure your Unix host for printing,

1. Optionally, assign a name corresponding to the MFP Server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

   203.66.191.186 pserver

2. Create a spool directory for the printer in the same directory where spool directories are normally kept on the machine, such as /var/spool or /var/spool/lpd:

   mkdir /var/spool/lpd/pserverd
   chown daemon /var/spool/lpd/pserverd
   chgrp daemon /var/spool/lpd/pserverd
   chmod 775 /var/spool/lpd/pserverd

3. Add an entry to the host's /etc/printcap file, similar to the following:

```
printer-name:\
   :lp=:\
   :rm=203.66.191.186:\
   :rp=lpt1:\
   :lf=/var/spool/lpd/pserverd.log:\
   :sd=/var/spool/lpd/pserverd:\
   :mx#0:
```

Lines should be indented with tabs. More than one printer name can be used, with variants separated by vertical bars (name1|name2).

The rm= entry should correspond to the IP address you have assigned to the MFP Server. You can also use a host name if you have assigned one in the /etc/hosts file.

The sd= entry should correspond to the spool directory you created in the previous step.

The rp= entry should correspond to the port name of the remote printer. The values should be one of lpt1, lpt2 or lpt3 depends on the printer port.

The MFP Server should now be available for printing from your Unix host.

12.MFP Server Installation in MAC OS

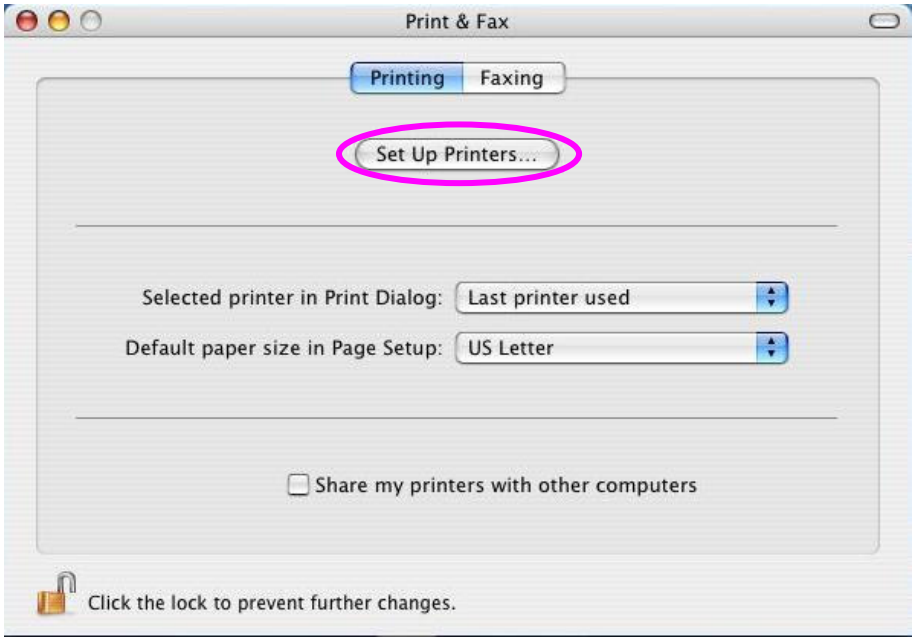
LPR Printing (Line Printer Remote technology) allows Macintosh computers to connect to MFPs or printers via TCP/IP. LPR Printing can be set up on any Macintosh with version 9.x above.

To enable LPR Printing in Macintosh, please follow the procedures below.

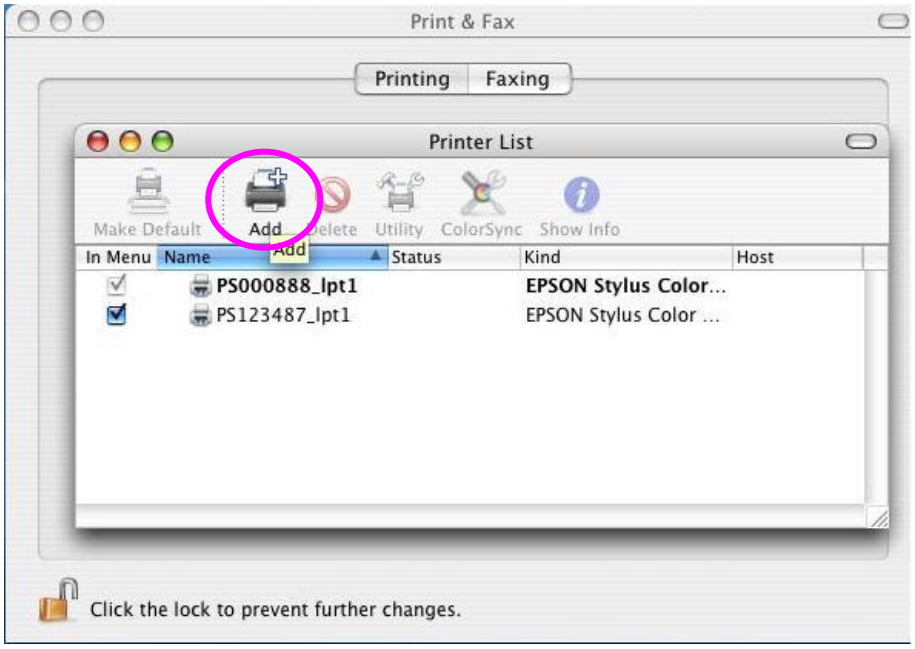
1. In the Desktop, click “System Preferences”.

2. Click “Print & Fax”.

3. From the “Print & Fax” screen, click “Set Up Printers…”.

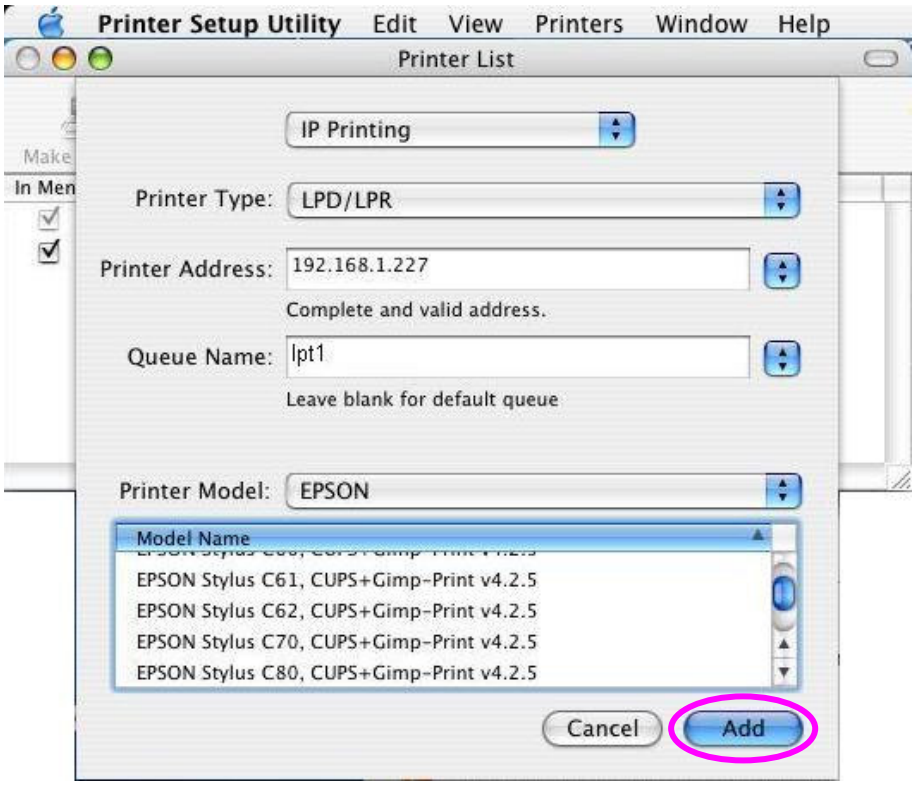


4. Click “Add” to add the new MFP Server through TCP/IP.

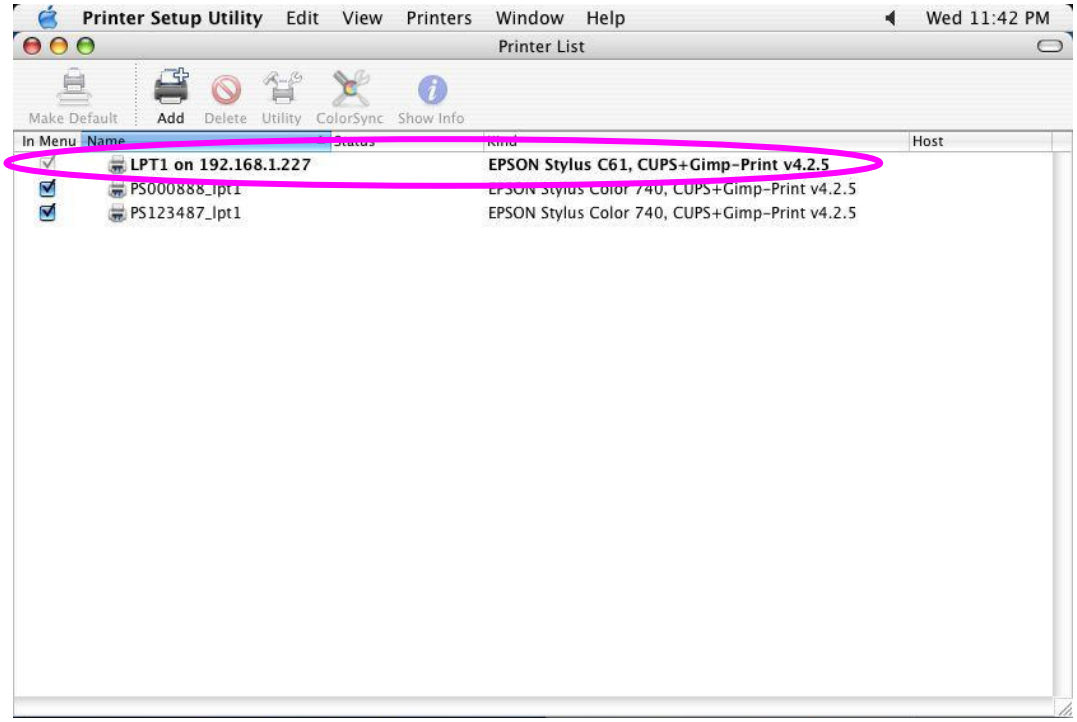


5. Enter the “Printer Type”, “Printer Address” and “Queue Name” and select the “Printer Model” to setup the MFP Server. Click “Add” to continue.

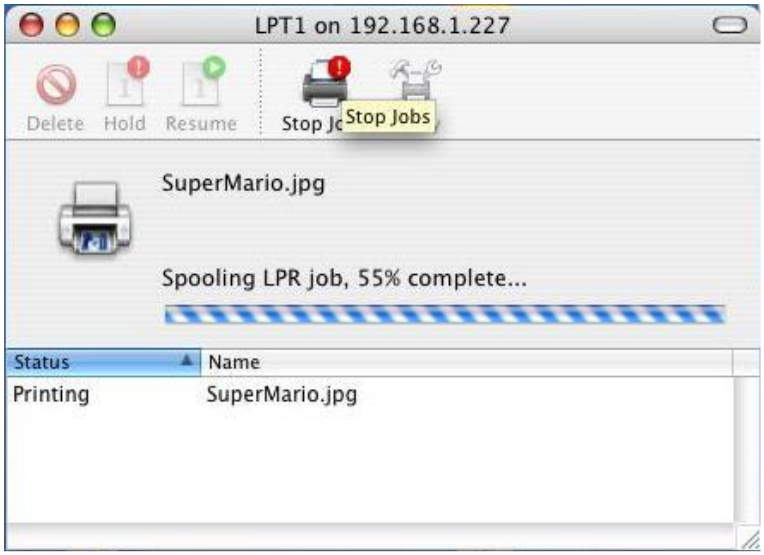
   Printer Type: LPD/LPR
   Printer Address: Input the IP Address of the MFP Server
   Queue Name: The queue name of the MFP Server is “lpt1”.
   Printer Model: Select the MFP or Printer Model that is attached to the MFP Server.



6. The MFP Server is installed completely. You can see it in the “Printer List”.



7. You can print a file to check whether the MFP Server is installed successfully.



13. Troubleshooting

1. This product is not found even after searching by the “MFP Server Control Manager”.

   - Check if the power adapter and the network cable are connected to the MFP Server properly.
   - Check if the LAN and Ready LEDs are turned on.
   - Check if the IP Address of the MFP Server is in the network segment as your computer.
     - If you are not sure the IP Address setting of the MFP Server, please check the TCP/IP setting of the MFP Server from the “Server Manager”.

2. The ways to change the IP Address of the MFP Server.

   - A DHCP Server is installed in the network

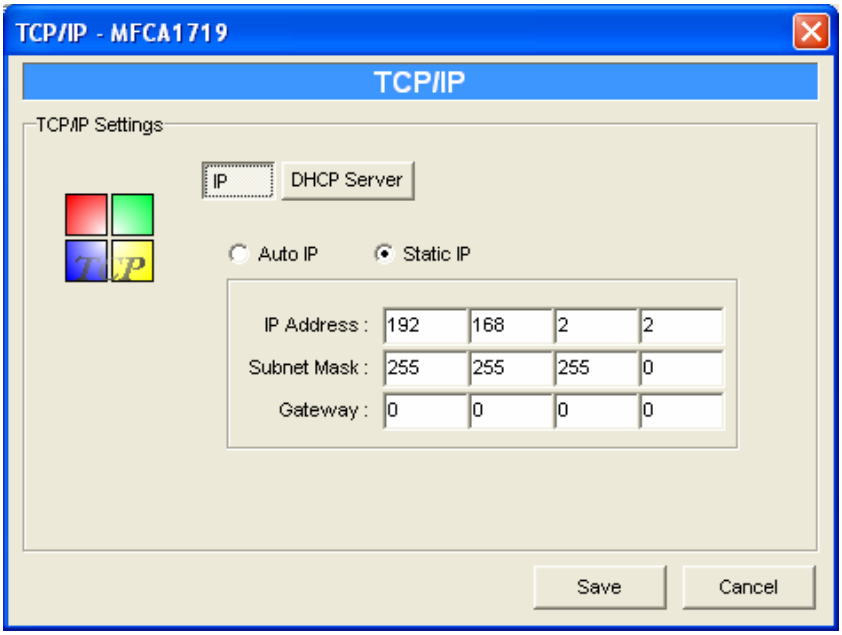
   If a DHCP Server is installed, you can setup to let the MFP Server get IP Address from the DHCP Server automatically.

   1. Open “Server Manager” and then select “TCP/IP” setting.
   2. Select “Auto IP” and click “Save”.
   3. Reboot the MFP Server.

   - Set up the IP Address Manually

   1. Open “Server Manager” and then select “TCP/IP” setting.
   2. Select “Static IP” and enter the IP Address and Subnet Mask as your computer. Click “Save”.
   3. Reboot the MFP Server.

   Note: *Set a static IP Address to MFP Server is recommended since DHCP assignment may dramatically change the IP Address for MFP Server.*



3. A user always connects the MFP Server.
   - Check the “Idle Timeout” setting of the MFP Server from the right side of “MFP Server Control Manager”. If the status is “Never Timeout”, please contact with your administrator to change the setting.
   - Contact with the current user and ask the user to disconnect the device.
   - If the user forgets to disconnect the device, you can inform the administrator to release the device.

4. I can’t use the MFP to scan, print or read the card reader even I have followed the installation of MFP as the manual.
   - Check if the MFP you are using is in the “Compatibility List” in Appendix.
   - Attached the MFP to PC directly and try if the MFP is able to use.

Appendix: MFP Server Compatibility List

The compatibility information is the first released in December 2005. For the latest information, please contact with your dealer.

No.	Brand Name	MFP Model	Windows 2000 (Scan/Print)	Windows XP (Scan/Print)	
				XP Built-In Scan Utility	Own Scan Utility
1	HP	PSC 1210	✓	✓	✓
2	HP	PSC 1350	✓	✓	✓
3	HP	PSC 1410	✓	✓	✓
4	HP	PSC 1510	✓	✓	✓
5	HP	PSC 1610	✓	✓	✓
6	HP	PSC 2210	✓	✓	✓
7	HP	PSC 2310	✓	✓	✓
8	HP	PSC 2355	✓	✓	✓
9	HP	PSC 2410	✓	✓	✓
10	HP	PSC 2510	✓	✓	✓
11	HP	PSC 2610	✓	✓	✓
12	HP	PSC 2710	✓	✓	✓
13	HP	PhotoSmart 2575	✓	✓	✓
14	HP	PhotoSmart 3110	✓	✓	✓
15	HP	PhotoSmart 3310	✓	✓	✓
16	HP	Office Jet 4255	✓	✓	✓
17	HP	Office Jet 5510	✓	✓	✓
18	HP	Office Jet 5610	✓	✓	✓
19	HP	Office Jet 6110	✓	✓	✓
20	HP	Office Jet 6210	✓	✓	✓

No.	Brand Name	MFP Model	Windows 2000 (Scan/Print)	Windows XP (Scan/Print)	
				XP Built-In Scan Utility	Own Scan Utility
21	HP	Office Jet 7210	✓	✓	✓
22	HP	Office Jet 7410	✓	✓	✓
23	HP	Office Jet 9100	✓	✓	✓
24	EPSON	CX1500	✓	✓	✓
25	EPSON	RX430	✓	✓	✓
26	EPSON	RX510	✓	✓	✓
27	EPSON	RX630	✓	✓	✓
28	CANON	MPC 190	✓	✓	✓
29	CANON	PLXMA MP 130	✓	✓	✓
30	CANON	PLXMA MP150	✓	✓	✓
31	CANON	PLXMA MP170	✓	✓	✓
32	CANON	PLXMA MP450	✓	✓	✓
33	LEXMARK	X5150	✓	✓	✓
34	LEXMARK	X7170	✓		✓